## 45 Agriculture, forestry, animal husbandry, hunting, trapping, fishing

45a	Soil working
45a	(IPC: A01B) Soil working
45b	Sowing and fertilising
45b	(IPC: A01C) Planting; Sowing; Fertilising
45c	Harvesting
45c	(IPC: A01D) Harvesting
45d	Animal engines, treadmills
45d	(IPC: A01H) New plants
45e	Processing of harvested produce
45e	(IPC: A01F) Processing of harvested produce; Hay and straw presses; Devices for storing agricultural or horticultural produce
45f	Gardening, culture of vegetables, fruit, vines, and hops, forestry, watering
45f	(IPC: A01G) Culture of vegetables, flowers, fruit, vines, and hops; Forestry; Watering
45g	Manufacture of dairy products, mechanic part
45g	(IPC: A01J) Manufacture of dairy products, mechanic part
45h	Animal husbandry, fishing
45h	(IPC: A01K) Animal husbandry; Care of birds, fishes, insects; Fishing
45i	Shoeing of animals
45i	(IPC: A01L) Shoeing of animals
45k	Combating noxious animals or weeds, trapping of animals, hunting appliances
45k	(IPC: A01M) Catching and trapping of animals; Apparatus for the destruction of noxious animals or noxious plants
<b>45</b> I	Preservation of animals and plants, pesticides and herbicides
451	(IPC: A01N) Preserved animals or plants or parts thereof; Chemical treatment e.g. disinfection, of soil or living plant material; Pesticides or herbicides
45m	(IPC: A23N) Machines or apparatus for treating harvested fruit, vegetables in bulk, not provided for elsewhere; Apparatus for preparing animal feeding-stuffs

45a	Soil working
	Hand tools for soil working
45a-1	Hoes for soil working (manufacture from sheet metal 7c-41; rolling 7f-3)
45a-2	Hand tools for extraction of weeds (apparatus for extermination of weeds by steam; chemical agents etc. 45k-4/53)
45a-4	Spades and shovels for soil working (7c-41; 7f-3; 69-23; shovels for excavation 84d-1/01)
45a-5	Miscellaneous hand tools for soil working; details applicable to different types of tools
	Ploughs
45a-6/01	Details of horse-drawn ploughs (45a-38; rolling of plough blades 7f-3)
45a-6/50	Carts for transporting ploughs
45a-7	Horse-drawn ploughs with front frames
45a-8	Adjustment mechanisms for swing ploughs
45a-9	Adjustment or lifting devices for wheeled ploughs in general
45a-10	Adjustment or lifting devices for wheeled ploughs of the Ventzki type
45a-11	Ploughs for working subsoil
45a-12	Ploughs with rotating shares and mouldboards
45a-13	Alternating ploughs for one furrow
45a-14	Alternating ploughs for multiple furrows
45a-15	Man-driven ploughs
45a-16	Ploughs with manure-spreaders, clod-crushers, harrows etc. (45a-39)
45a-17	Double-turn ploughs (45b-8)
45a-18	Ploughs for vineyards
45a-19	Ploughs for weeding; ploughs with means for exterminating weeds or pests (45k-4/53; 45a-50)
45a-20/01	Simple ploughs for making ditches
45a-20/02	Devices with rotating tools for making ditches
45a-20/03	Devices with digging tools for making ditches
45a-20/04	Draining devices with tools pulled underground, mole ploughs
45a-20/05	Special tools and machines for lifting agriculturally valuable subsoil layers, for example clay etc.
45a-20/06	Means for distributing subsoil layers on the surface
45a-20/10	Ploughs for forestry
45a-20/11	Special devices for ploughs for forestry, e.g. stump deflectors
45a-21	Motor ploughs in general, motor ploughs with shares, articulated ploughs
45a-22	Tractors for field implements; field vehicles with wheels, with chain tracks or with driving traction elements (63c-30 – 63c-32)
45a-23	Ploughs carried by tractors
45a-24/01	Ploughs drawn by tractors etc.
45a-24/02	Devices for connecting ploughs and other implements, in particular wide implements, to tractors
45a-25	Motor-driven alternating ploughs
45a-26	Motor-driven ploughs with hauling equipment for pulling cable ploughs or for working along a cable (hoists for extracting stumps 45f-18)
45a-27	Small motor-driven ploughs
45a-28	Motor-driven ploughs with rotary tools, cultivators
45a-29	Motor-driven ploughs with oscillating, digging or piercing tools
45a-30	Machines for pulling cable ploughs cables, cable systems with one or two engines
45a-31	Vehicles, poles or rails for anchoring cable ploughs
45a-32	Electrically driven ploughs and other earth-working machines
45a-33	Balance ploughs for cable systems
45a-34	Alternating ploughs for cable systems

fraction wheels (63-62/20) = 636-29(01)  45a-36   Devices for raising or lowering the earth-working tools of motor-driven or tractor-drawn ploughs, in which the lifting is initiated by the operator, but not carried out by manual force  45a-37   Devices for steering motor-driven earth-working implements and keeping them in track Plough shares which yield at overload, also with devices for controlling or stopping the engine  45a-39   Combined motor-driven earth-working implements and keeping them in track Plough shares which yield at overload, also with devices for controlling or stopping the engine  45a-30   Combined motor-driven earth-working implements (45b-13)  5pecial driving arrangements, gearings, dust-protection devices, etc., for tractors or motor-driven agricultural machines  Harrows  45a-41   Harrows with solid frames  45a-42   Harrows with links, articulated harrows  45a-43   Rotating harrows (45a-28)  Other machines or implements for earth working  45a-44   Cultivators  Cold crushers except 45a-48, also earth working by blasting (45f-18)  Drags for earth working (19c-10; manure spreaders 45b-6/20)  Drags for earth working (19c-10; manure spreaders 45b-6/20)  Devices for gathering stones  45a-49   Rollers for earth working (19c-10; manure spreaders 45b-6/20)  Machines for weeding and hoeing  45a-49/01   Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53)  Machines for weeding and hoeing  45a-50   Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53)  45a-51   Hoeing machines with tools on oscillating arms or parallelogram linkages  54a-52   Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37)  45a-53   Hoeing machines with tools on oscillating arms or parallelogram linkages  54a-64   Hoeing machines with tools on oscillating tools, also for thinning  45a-100   Hoeing machines with torating tools, also for thinning  45a-100   Hoeing machines with torating tools, also for thinn	45a-35	Traction wheels for motor-driven ploughs and agricultural tractors, also with adjustable
ploughs, in which the lifting is initiated by the operator, but not carried out by manual force Devices for steering motor-driven earth-working implements and keeping them in track Plough shares which yield at overload, also with devices for controlling or stopping the engine Combined motor-driven earth-working implements (45b-13) Special driving arrangements, gearings, dust-protection devices, etc., for tractors or motor-driven agricultural machines  Harrows Harrows Harrows with solid frames Harrows with solid frames Harrows with links, articulated harrows A5a-41 Harrows with links, articulated harrows Rotating harrows (45a-28) Other machines or implements for earth working Cultivators Clod crushers except 45a-48, also earth working by blasting (45f-18) Drags for earth working (19c-10; manure spreaders 45b-6/20) Drags for earth working (19c-10; manure spreaders 45b-6/20) Devices for gathering stones Rollers for earth working Unplements for treating meadows or lawns, slitting of meadows Cutting turf (cutters for lawn edges 45f-4/05) Machines for weeding and hoeing Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53 45a-50 Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53 45a-51 Hoeing machines with tools on oscillating arms or parallelogram linkages Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37) 45a-53 Hoeing machines with rotating tools, also for thinning Hoeing machines with rotating tools, also for thinning Watering, drainage Watering, drainage Watering, drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a-1/00 45a-1/	404-00	
45a-38 Plough shares which yield at overload, also with devices for controlling or stopping the engine  Combined motor-driven earth-working implements (45b-13) Special driving arrangements, gearings, dust-protection devices, etc., for tractors or motor-driven agricultural machines  Harrows  Harrows  Harrows with solid frames Harrows with solid frames Rotating harrows (45a-28)  Other machines or implements for earth working  Cultivators  Clod crushers except 45a-48, also earth working by blasting (45f-18) Drags for earth working (19c-10; manure spreaders 45b-6/20)  Devices for gathering stones  Rollers for earth working  Implements for treating meadows or lawns, slitting of meadows  Cutting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing  Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53)  Hoeing machines with tools on oscillating arms or parallelogram linkages  Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37)  Hoeing machines with oscillating tools, also for thinning  Watering, drainage  Watering, drainage  Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a-1/00  45a-1/00  45a-1/00  45a-1/01  45a-1/02  45a-1/10  45a-1	45a-36	ploughs, in which the lifting is initiated by the operator, but not carried out by manual
engine Combined motor-driven earth-working implements (45b-13) Special driving arrangements, gearings, dust-protection devices, etc., for tractors or motor-driven agricultural machines  Harrows Harrows Harrows with solid frames Harrows with solid frames Harrows with links, articulated harrows Rotating harrows (45a-28) Other machines or implements for earth working Cultivators Clod crushers except 45a-48, also earth working by blasting (45f-18) Drags for earth working (19c-10; manure spreaders 45b-6/20) Devices for gathering stones Rollers for earth working Implements for treating meadows or lawns, slitting of meadows Cutting turf (cutters for lawn edges 45f-4/05) Machines for weeding and hoeing Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53) Hoeing machines with tools on oscillating arms or parallelogram linkages Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37) Hoeing machines with tosil solos, also for thinning Hoeing machines with rotating tools, also for thinning Watering, drainage Watering, drainage Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a-1/00 Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3) Spades; Shovels With teeth Spades; Shovels With teeth Hoes; Hand cultivators With 12a-1/12 With teeth With teeth only With teeth With 14a-1/14 With 14a with teeth only With 14a-1/14 Sa-1/10 Combinations of different kinds of hand tools Asa-1/10 Combinations of different kinds of hand tools Attaching the blades or the like to handles; Interchangeable or adjustable blades Combinations of different kinds of hand tools Attaching the blades or the like to handles; Interchangeable or adjustable blades	45a-37	
45a-40 Special driving arrangements, gearings, dust-protection devices, etc., for tractors or motor-driven agricultural machines  Harrows  45a-41 Harrows with solid frames  45a-42 Harrows with solid frames  45a-43 Rotating harrows (45a-28)  Other machines or implements for earth working  Cultivators  Clod crushers except 45a-48, also earth working by blasting (45f-18)  45a-46 Drags for earth working (19c-10; manure spreaders 45b-6/20)  Devices for gathering stones  Rollers for earth working  Implements for treating meadows or lawns, slitting of meadows  Cutting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing  Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53)  45a-50 Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53)  45a-51 Hoeing machines with tools on oscillating arms or parallelogram linkages  45a-52 Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37)  45a-53 Hoeing machines with oscillating tools, also for thinning  Watering, drainage  45a-55 Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a-1/00  45a-1/00  45a-1/00  45a-1/00  45a-1/00  45a-1/01  Watering, drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a-1/00  45a-1/00  45a-1/00  45a-1/00  45a-1/01  Watering, drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a-1/00  45a-1/00  45a-1/00  45a-1/00  Artifical rain 45f-22 – 45f-25)  45a-1/00	45a-38	
### Afarows with solid frames ### Harrows with solid frames ### Harrows with links, articulated harrows ### Afa-41 ### Afa-42 ### Harrows with links, articulated harrows ### Afa-43 ### Rotating harrows (45a-28) ### Cultivators ### Clod crushers except 45a-48, also earth working by blasting (45f-18) ### Afa-46 ### Clod crushers except 45a-48, also earth working by blasting (45f-18) ### Afa-47 ### Devices for gathering stones ### Afa-48 ### Afa-49/01 ### Afa-49/00 ### Afa-49/		
45a-41 Harrows with solid frames 45a-42 Harrows with links, articulated harrows 45a-43 Rotating harrows (45a-28)  Other machines or implements for earth working 45a-44 Cultivators 45a-45 Clod crushers except 45a-48, also earth working by blasting (45f-18) 45a-46 Drags for earth working (19c-10; manure spreaders 45b-6/20) 45a-47 Devices for gathering stones 45a-48 Rollers for earth working 45a-49/01 Implements for treating meadows or lawns, slitting of meadows 45a-49/30 Cutting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing 45a-54 Hoeing machines with tools on oscillating arms or parallelogram linkages 45a-51 Hoeing machines with tools on oscillating arms or parallelogram linkages 45a-53 Hoeing machines with oscillating tools, also for thinning 45a-53 Hoeing machines with rotating tools, also for thinning 45a-54 Hoeing machines with rotating tools, also for thinning 45a-55 Watering, drainage 45a-55 Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25) 45a (IPC: A01B) Soil working 45a-1/02 45a-1/04 Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3) 45a-1/06 Hoes; Hand cultivators 45a-1/10 With teeth 45a-1/10 With teeth 45a-1/10 With teeth 45a-1/10 With teeth 45a-1/10 With the single blade 45a-1/10 With theeth only 45a-1/16 Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00) 45a-1/20 Attaching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs 45a-3/00 Ploughs with fixed plough-shares	45a-40	
45a-42 45a-43 Rotating harrows (45a-28) Other machines or implements for earth working Cultivators Clod crushers except 45a-48, also earth working by blasting (45f-18) Drags for earth working (19c-10; manure spreaders 45b-6/20) Devices for gathering stones 45a-47 Asa-48 Asa-48 Rollers for earth working Machines for treating meadows or lawns, slitting of meadows Cutting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing Machines for weeding and hoeing Machines for weeding apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53) Hoeing machines with tools on oscillating arms or parallelogram linkages Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37) Hoeing machines with oscillating tools, also for thinning Hoeing machines with rotating tools, also for thinning Watering, drainage Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a-1/06 45a-1/06 45a-1/06 45a-1/06 45a-1/10 45a-1/10 4 Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3) Spades; Shovels Spades; Shovels With a single blade 45a-1/10 With two or more blades 45a-1/16 Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00) Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00) Attaching the blades or the like to handles; Interchangeable or adjustable blades Ploughs  45a-3/00 Ploughs with fixed plough-shares		
45a-43 Rotating harrows (45a-28)  Other machines or implements for earth working  45a-44 Cultivators  45a-45 Clod crushers except 45a-48, also earth working by blasting (45f-18)  45a-46 Drags for earth working (19c-10; manure spreaders 45b-6/20)  45a-47 Devices for gathering stones  45a-48 Rollers for earth working  45a-49/30 Implements for treating meadows or lawns, slitting of meadows  45a-49/30 Cutting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing  45a-50 Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53)  45a-51 Hoeing machines with tools on oscillating arms or parallelogram linkages  45a-52 Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37)  45a-53 Hoeing machines with oscillating tools, also for thinning  Watering, drainage  45a-54 Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a (IPC: A01B) Soil working  45a-1/06 Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3)  45a-1/06 Spades; Shovels  45a-1/10 With two or more blades  45a		
Other machines or implements for earth working  45a-44 45a-45 45a-45 Clod crushers except 45a-48, also earth working by blasting (45f-18) Drags for earth working (19c-10; manure spreaders 45b-6/20) 45a-47 Devices for gathering stones Rollers for earth working Haplements for treating meadows or lawns, slitting of meadows 45a-49/01 Cutting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53) Hoeing machines with tools on oscillating arms or parallelogram linkages Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37) Hoeing machines with oscillating tools, also for thinning Hoeing machines with rotating tools, also for thinning Watering, drainage Watering, drainage Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a  (IPC: A01B) Soil working Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3) Spades; Shovels		·
45a-44 45a-45 45a-46 Clod crushers except 45a-48, also earth working by blasting (45f-18) Drags for earth working (19c-10; manure spreaders 45b-6/20) 45a-47 Devices for gathering stones Rollers for earth working Rollers for earth working Implements for treating meadows or lawns, slitting of meadows 45a-49/30 Cutting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53) Hoeing machines with tools on oscillating arms or parallelogram linkages Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37) Hoeing machines with oscillating tools, also for thinning Hoeing machines with rotating tools, also for thinning Watering, drainage Watering, drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a  (IPC: A01B) Soil working  Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3) Spades; Shovels With esth Sa-1/08 Spades; Shovels With a single blade With two or more blades With blades provided with teeth Whos; Hand cultivators With blades provided with teeth With seth only Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00) Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00) Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00) Ata-1/18 Ata-1/10 Attaching the blades or the like to handles; Interchangeable or adjustable blades Ploughs  Ploughs	40a-43	
45a-45 45a-46 45a-47 A5a-47 A5a-48 A5a-48 A5a-48 A5a-48 A5a-49 A5a-50  A5a-50  A5a-51  A5a-52  A5a-52  A5a-52  A5a-53  A5a-53  A5a-54  Hoeing machines with tools on oscillating arms or parallelogram linkages A5a-54  A5a-55  A5a-55  A5a-56  A5a-57  A5a-57  A5a-58  A5a-59  A5a-59  A5a-59  A5a-100  A5a-100  A5a-1/00  A5a-1/00  A5a-1/00  A5a-1/00  A5a-1/00  A5a-1/00  A5a-1/00  A5a-1/10  A5a-1/	45- 44	
45a-46 45a-47 Devices for gathering stones 45a-48 Rollers for earth working 45a-49/30 Utting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing  45a-50 Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53) Hoeing machines with tools on oscillating arms or parallelogram linkages 45a-51 Hoeing machines with oscillating tools, also for thinning Hoeing machines with roating tools, also for thinning Hoeing machines with roating tools, also for thinning Watering, drainage  Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a  (IPC: A01B) Soil working  45a-1/00 45a-1/00 45a-1/00 45a-1/01 45a-1/02 45a-1/02 45a-1/10 45a-1/		
45a-47 As a Rollers for gathering stones 45a-48 Rollers for earth working 45a-49/01 Implements for treating meadows or lawns, slitting of meadows 45a-49/30 Cutting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing  45a-50 Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53) 45a-51 Hoeing machines with tools on oscillating arms or parallelogram linkages 45a-52 Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37) 45a-53 Hoeing machines with oscillating tools, also for thinning  Watering, drainage  Watering, drainage  Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a (IPC: A01B) Soil working  45a-1/00  45a-1/00  45a-1/00  45a-1/00  45a-1/01  45a-1/02  45a-1/02  45a-1/10  45a-1		
45a-48 Rollers for earth working Implements for treating meadows or lawns, slitting of meadows 45a-49/30 Cutting turf (cutters for lawn edges 45f-4/05)  Machines for weeding and hoeing 45a-50 Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53) 45a-51 Hoeing machines with tools on oscillating arms or parallelogram linkages 45a-52 Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37) 45a-53 Hoeing machines with oscillating tools, also for thinning 45a-54 Hoeing machines with rotating tools, also for thinning 45a-55 Watering, drainage 45a-56 Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25) 45a (IPC: A01B) Soil working 45a-1/02 Spades; Shovels . with teeth 45a-1/02 . with eeth 45a-1/03 . with a single blade 45a-1/10 . with two or more blades 45a-1/11 . with two or more blades 45a-1/12 . with blades provided with teeth 45a-1/14 . with teeth only 45a-1/16 . Tools for uprootting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00) . Tong-like tools . Attaching the blades or the like to handles; Interchangeable or adjustable blades Ploughs 45a-3/00 Ploughs with fixed plough-shares		
Implements for treating meadows or lawns, slitting of meadows		
Machines for weeding and hoeing  45a-50  Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53)  45a-51  Hoeing machines with tools on oscillating arms or parallelogram linkages  Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37)  45a-53  Hoeing machines with oscillating tools, also for thinning  Watering, drainage  45a-54  Hoeing machines with rotating tools, also for thinning  Watering, drainage  Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a  (IPC: A01B) Soil working  45a-1/00  45a-1/00  45a-1/01  45a-1/02  5 pades; Shovels  5 with eeth  45a-1/04  5 with teeth  6 Hoes; Hand cultivators  45a-1/10  45a-1/10  5 with blades provided with teeth  7 with teeth  8 with teeth only  Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00)  45a-1/18  5 Tong-like tools  Combinations of different kinds of hand tools  Attaching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs  45a-3/00  Ploughs with fixed plough-shares	45a-49/01	· ·
45a-50 Machines for weeding (apparatus for extermination of weeds by steam, chemical agents etc. 45k-4/53) 45a-51 Hoeing machines with tools on oscillating arms or parallelogram linkages 45a-52 Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37) 45a-53 Hoeing machines with oscillating tools, also for thinning 45a-54 Hoeing machines with rotating tools, also for thinning  Watering, drainage 45a-55 Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25) 45a (IPC: A01B) Soil working  45a-1/00 Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3) 45a-1/02 45a-1/04 . with teeth 45a-1/06 . Hoes; Hand cultivators 45a-1/10 . with two or more blades 45a-1/10 . with two or more blades 45a-1/11 . with two or more blades 45a-1/12 . with blades provided with teeth 45a-1/16 . Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00) 45a-1/18 . Tong-like tools 45a-1/20 . Combinations of different kinds of hand tools 45a-1/20 . Attaching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs  45a-3/00 Ploughs with fixed plough-shares	45a-49/30	Cutting turf (cutters for lawn edges 45f-4/05)
agents etc. 45k-4/53)  Hoeing machines with tools on oscillating arms or parallelogram linkages  Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37)  Hoeing machines with oscillating tools, also for thinning  Hoeing machines with rotating tools, also for thinning  Watering, drainage  Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a  (IPC: A01B) Soil working  Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3)  Spades; Shovels  Spades; Shovels  Sa-1/02  Spades; Shovels  With teeth  Hoes; Hand cultivators  Sea-1/10  Swith a single blade  45a-1/12  With two or more blades  with blades provided with teeth  with teeth only  Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00)  Tong-like tools  Ata-1/18  Ata-1/20  Combinations of different kinds of hand tools  Atta-1/21  Ploughs  Ploughs with fixed plough-shares		Machines for weeding and hoeing
Steering mechanisms for hoeing machines, manure spreaders and sowing machines (45a-37)  45a-53 Hoeing machines with oscillating tools, also for thinning  Watering, drainage  45a-55 Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a (IPC: A01B) Soil working  45a-1/00 Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3)  45a-1/02 Spades; Shovels  45a-1/06 Hoes; Hand cultivators  45a-1/08 with a single blade  45a-1/10 with two or more blades  45a-1/12 with blades provided with teeth  45a-1/14 with teeth only  45a-1/16 Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00)  45a-1/18 Combinations of different kinds of hand tools  Ataching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs  45a-3/00 Ploughs with fixed plough-shares	45a-50	
(45a-37)  45a-53 Hoeing machines with oscillating tools, also for thinning  45a-54 Hoeing machines with rotating tools, also for thinning  Watering, drainage  45a-55 Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a (IPC: A01B) Soil working  45a-1/00 Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3)  45a-1/02 Spades; Shovels  45a-1/04 . with teeth  45a-1/06 . Hoes; Hand cultivators  45a-1/08 . with a single blade  45a-1/10 . with two or more blades  45a-1/11 . with teeth only  45a-1/12 . with blades provided with teeth  45a-1/14 . with teeth only  45a-1/16 . Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00)  45a-1/18 . Tong-like tools  45a-1/20 . Attaching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs  45a-3/00 Ploughs with fixed plough-shares	45a-51	
Watering, drainage  45a-55  Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a  (IPC: A01B) Soil working  45a-1/00  Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3)  . Spades; Shovels  . with teeth 45a-1/06  . Hoes; Hand cultivators 45a-1/10  . with a single blade 45a-1/10  . with two or more blades 45a-1/12  . with blades provided with teeth 25a-1/14  . with teeth only  . Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00)  . Tong-like tools 45a-1/22  . Attaching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs  Ploughs with fixed plough-shares		(45a-37)
Watering, drainage  Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a  (IPC: A01B) Soil working  45a-1/00  Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3)  Spades; Shovels  Spades; Shovels  with teeth  Sa-1/06  Hoes; Hand cultivators  Sa-1/08  with a single blade  45a-1/10  with two or more blades  45a-1/12  with blades provided with teeth  Sa-1/14  Soil working  Spades; Shovels  with a single blade  Sa-1/10  Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00)  Tong-like tools  Sa-1/20  Attaching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs  Ploughs with fixed plough-shares		
Watering and drainage of the ground for agricultural purposes (85d-1; ploughs and other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a (IPC: A01B) Soil working  45a-1/00 Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3)  45a-1/02 Spades; Shovels  5a-1/04 Shovels  6a-1/06 Hoes; Hand cultivators  6a-1/08 Shovels  6a-1/10 Shovel	45a-54	
other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and greenhouses 45f-9/08; watering above the ground, artificial rain 45f-22 – 45f-25)  45a (IPC: A01B) Soil working  45a-1/00 Hand tools (manufacture from sheet metal 7c-41, by rolling 7f-3)  45a-1/02 Spades; Shovels  45a-1/04 . with teeth  45a-1/06 . Hoes; Hand cultivators  45a-1/08 . with a single blade  45a-1/10 . with two or more blades  45a-1/12 . with blades provided with teeth  45a-1/14 . with teeth only  45a-1/16 . Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00)  45a-1/18 . Tong-like tools  45a-1/20 . Combinations of different kinds of hand tools  45a-1/22 . Attaching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs  45a-3/00 Ploughs with fixed plough-shares		
45a-1/00 45a-1/02 45a-1/04 45a-1/06 45a-1/06 45a-1/08 45a-1/10 45a-1/10 45a-1/10 45a-1/10 45a-1/10 45a-1/10 45a-1/10 45a-1/10 45a-1/12 45a-1/14 45a-1/16 45a-1/16 45a-1/16 45a-1/16 45a-1/16 45a-1/16 45a-1/16 45a-1/16 45a-1/16 45a-1/18 45a-1/18 45a-1/20	45a-55	other machines for making ditches 45a-20/01 – 45a-20/03; in gardens and
45a-1/02 . with teeth 45a-1/06 . Hoes; Hand cultivators 45a-1/08 . with a single blade 45a-1/10 . with two or more blades 45a-1/12 . with blades provided with teeth 45a-1/14 . with teeth only 45a-1/16 . Tools for uprooting weeds (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00) 45a-1/18 . Tong-like tools 45a-1/20 . Combinations of different kinds of hand tools 45a-1/22 . Attaching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs  Ploughs with fixed plough-shares	45a	(IPC: A01B) Soil working
means of steam, chemicals, burning, or electricity 45k-21/00) 45a-1/18 45a-1/20 45a-1/20 45a-1/22 Combinations of different kinds of hand tools 45a-1/22 Attaching the blades or the like to handles; Interchangeable or adjustable blades  Ploughs  Ploughs with fixed plough-shares	45a-1/02 45a-1/04 45a-1/06 45a-1/08 45a-1/10 45a-1/12	<ul> <li>Spades; Shovels</li> <li>with teeth</li> <li>Hoes; Hand cultivators</li> <li>with a single blade</li> <li>with two or more blades</li> <li>with blades provided with teeth</li> </ul>
<ul> <li>45a-1/20         <ul> <li>Combinations of different kinds of hand tools</li> <li>Attaching the blades or the like to handles; Interchangeable or adjustable blades</li> </ul> </li> <li>Ploughs         <ul> <li>Ploughs with fixed plough-shares</li> </ul> </li> </ul>		means of steam, chemicals, burning, or electricity 45k-21/00)
Ploughs 45a-3/00 Ploughs with fixed plough-shares	45a-1/20	. Combinations of different kinds of hand tools
45a-3/00 Ploughs with fixed plough-shares	Ploughs	
		Ploughs with fixed plough-shares

45a-3/04	. Animal-drawn ploughs
45a-3/06	without alternating possibility, i.e. incapable of making an adjacent furrow on
	return journey
45a-3/08	Swing ploughs
45a-3/10	Trussed-beam ploughs; Single-wheel ploughs
45a-3/12	Two-wheel beam ploughs
45a-3/14	Frame ploughs
45a-3/16 45a-3/18	Alternating ploughs, i.e. capable of making an adjacent furrow on return journey Turn-wrest ploughs
45a-3/20	Balance ploughs
45a-3/22	with parallel plough units used alternately
45a-3/24	. Tractor-drawn ploughs
45a-3/26	without alternating possibility
45a-3/28	Alternating ploughs
45a-3/30	Turn-wrest ploughs
45a-3/32	Balance ploughs
45a-3/34	with parallel plough units used alternately
45a-3/36	. Ploughs mounted on tractors
45a-3/38	without alternating possibility
45a-3/40	Alternating ploughs
45a-3/42	Turn-wrest ploughs
45a-3/44	with parallel plough units used alternately
45a-3/46	Ploughs supported partly by tractor and partly by their own wheels
45a-3/50	. Self-propelled ploughs
45a-3/52 45a-3/54	with three or more wheels, or endless tracks without alternating possibility
45a-3/56	Alternating possibility
45a-3/58	with two wheels
45a-3/60	Alternating ploughs
45a-3/62	Balance ploughs
45a-3/64	. Cable ploughs; Indicating or signalling devices for cable plough systems
45a-3/66	with motor-driven winding apparatus mounted on the plough
45a-3/68	Cable systems with one or two engines
45a-3/70	Systems with one engine for working uphill
45a-3/72	Means for anchoring the cables
45a-3/74	. Using electric power for propelling ploughs
45a-5/00	Ploughs with rolling non-driven tools, e.g. discs
45a-5/02	. drawn by animals
45a-5/04	. drawn by tractors
45a-5/06	without alternating possibility
45a-5/08	Alternating ploughs
45a-5/10	. mounted or partly-mounted on tractors
45a-5/12	without alternating possibility
45a-5/14	Alternating ploughs
45a-5/16	. Self-propelled disc or like ploughs
45a-7/00	Disc-like soil-working implements usable either as ploughs or as harrows, etc.
45a-9/00	Ploughs with rotating propelled tools
45a-11/00	Ploughs with oscillating, digging or piercing tools
45a-13/00	Ploughs or like machines for special purposes
45a-13/02	for making or working ridges, e.g. with symmetrically arranged mouldboards (machines for making or covering holes for sowing or planting 45b-5/04, trench-
	digging equipment in general 84d-6/01, 84d-5/00)
45a-13/04	for working in vineyards, orchards, or the like
45a-13/06	Arrangements for preventing damage to the vines, etc.
45a-13/08	. for working subsoil
45a-13/10	Special implements for lifting subsoil layers

45a-13/12 45a-13/14 45a-13/16	<ul><li> Means for distributing the layers on the surface</li><li>. for working soil in two or more layers</li><li>. Machines for combating erosion, e.g. basin-diggers, furrow-dammers</li></ul>
45a-15/00 45a-15/02 45a-15/04 45a-15/06 45a-15/10 45a-15/12 45a-15/14 45a-15/16 45a-15/18 45a-15/20	Elements, tools, or details of ploughs  Plough blades; Fixing the blades  Interchangeable or adjustable shares  Mouldboards  Interchangeable or adjustable mouldboards  Beams; Handles  Frames  Discs; Bearings for discs, Scrapers for cleaning discs  Coulters  Special adjusting means for tools of ploughs drawn by, or mounted on tractors working on hillsides or slopes
45a-17/00	Ploughs with special additional arrangements, e.g. means for putting manure under the soil, clod-crushers (combined apparatus for soil working 45a-49/02)
<u>Harrows</u>	
<b>45a-19/00</b> 45a-19/02 45a-19/04 45a-19/06 45a-19/08 45a-19/10	Harrows with non-rotating tools  with tools rigidly or elastically attached to a tool-frame  with two or more tool-frames  with tools or tool-frames moved to-and-fro mechanically  with link network supporting tooth-like tools  Lifting or cleaning apparatus
45a-21/00	Harrows with rotating non-propelled tools (with rotary propelled tools
45a-21/02 45a-21/04 45a-21/06 45a-21/08	<ul> <li>45a-33/00)</li> <li>with tooth-like tools</li> <li>on horizontally-arranged axles</li> <li>on vertically-arranged axles</li> <li>with disc-like tools</li> </ul>
<b>45a-23/00</b> 45a-23/02 45a-23/04 45a-23/06	Elements, tools, or details of harrows . Teeth; Fixing the teeth . Frames; Drawing-arrangements . Discs; Bearings therefor; Scrapers for cleaning discs
45a-25/00	Harrows with special additional arrangements, e.g. means for distributing fertilisers; Harrows for special purposes
Other machin	nes for working soil
45a-27/00	Clod-crushers
<b>45a-29/00</b> 45a-29/02 45a-29/04 45a-29/06	Rollers . with smooth surface . with non-smooth surface formed of rotatably-mounted rings or discs or with projections or ribs on the roller body; Land packers . with special additional arrangements
45a-31/00	<b>Drags</b> (road graders 19c-10/10, 84d-3/62)
45a-33/00 45a-33/02 45a-33/04 45a-33/06 45a-33/10 45a-33/12 45a-33/14	Tilling implements with rotary propelled tools  with tools on horizontal shaft transverse to direction of travel  with tools on horizontal shaft parallel to direction of travel  with tools on vertical or steeply-inclined shaft  Tools; Details, e.g. adaptations of transmissions or gearings  Structural or functional features of the tools  Arrangement of the tools; Screening of the tools  Attaching the tools to the rotating shaft, e.g. resiliently-attached tools

45a-33/16	. with special additional arrangements (for sowing or fertilising 45a-49/06)
45a-35/00	Other machines for working soil (45a-37/00, 45a-39/00, 45a-77/00 take
45a-35/02 45a-35/04 45a-35/06 45a-35/08 45a-35/10 45a-35/12 45a-35/14 45a-35/16 45a-35/20 45a-35/22 45a-35/22 45a-35/24 45a-35/26 45a-35/28 45a-35/30 45a-35/30	precedence) . with non-rotating tools . drawn by animal or tractor with spring tools with rigid tools . mounted on tractors . with spring tools . with rotating or circulating non-propelled tools . with rotating or circulating tools . with both rotating and non-rotating tools . Tools; Details . Non-rotating tools; Mounting non-rotating tools . Spring tools . Rigid tools . Rotating tools; Mounting rotating tools . Undercarriages . with special additional arrangements
45a-37/00	Devices for loosening soil compacted by wheels or the like
45a-39/00	Other machines specially adapted for working soil on which crops are
45a-39/02 45a-39/04 45a-39/06 45a-39/10 45a-39/12 45a-39/14 45a-39/16 45a-39/18 45a-39/20 45a-39/22 45a-39/24 45a-39/26 45a-39/28 45a-39/28 45a-41/00 45a-41/02 45a-41/04	growing  with non-rotating tools  drawn by animal or tractor  Self-propelled machines  with rotating tools  with oscillating tools  for special purposes  for working ridges  for working in vineyards, orchards, or the like  for weeding (apparatus for the destruction of unwanted vegetation by means of steam, chemicals, burning, or electricity 45k-21/00)  Rod weeders, i.e. weeders with rotary rods propelled beneath the soil surface  Tools; Details  Tools; Mounting tools  Mundercarriages  Arrangements for protecting plants  with special additional arrangements  Thinning machines  with oscillating tools  with rotating tools
45a-41/04 45a-41/06	with electric, e.g. photo-electric control of thinning operations
45a-43/00	Stone-gatherers
<b>45a-45/00</b> 45a-45/02 45a-45/04	Machines for treating meadows or lawns . for aerating . for cutting sods or turves (edge trimmers for lawns 45f-3/06)
45a-47/00	Soil-working with electric potential applied between tools and soil
<b>45a-49/00</b> 45a-49/02	<b>Combined machines</b> (auxiliary devices attached to machines of a different kind, e.g. harrows attached to ploughs, in the relevant groups for the machines) . with two or more soil-working tools of different kind
45a-49/04 45a-49/06	. Combination of soil-working tools with non-soil-working tools, e.g. planting tools (harvesters combined with soil-working implements 45c-43/12) for sowing or fertilising

	Undercarriages specially adapted for mounting-on various kinds of
45a-51/02	agricultural tools or apparatus . propelled by a motor
45a-51/04	. drawn by animal or tractor
45a-53/00	<b>Tractors adapted for agricultural purposes</b> (tractors in general 63c-3 – 63c-5, 63c-30 – 63c-32)
45a-53/02	. with two axles Construction of the frames
45a-53/04 45a-53/06	Lateral wheel base adjustment
45a-53/08	Arrangement of the steering means
45a-53/10 45a-53/12	<ul><li>. Arrangement of power take-off</li><li>. Arrangement for displacing the centre of gravity</li></ul>
45a-53/14	. with one axle
45a-53/16 45a-53/18	provided with a seat Arrangement of power take-off
	parts of agricultural machines or implements
45a-55/00	Wheels
45a-55/02	. with special parts preventing slipping or sinking (wheels in general 63d)
45a-57/00	Seats, supports and shelters for the driver
45a-59/00	Devices specially adapted for connection between animals or tractors and soil-working machines
45a-59/02	. for animal-drawn machines
45a-59/04 45a-59/042	<ul><li>for machines pulled or pushed by a tractor</li><li>having pulling means arranged on the rear part of the tractor</li></ul>
45a-59/043	supported at three points (45a-59/06 takes precedence)
45a-59/044 45a-59/046	<ul><li>. having pulling means arranged on the middle part of the tractor</li><li>. having pulling or pushing means arranged on the side of the tractor</li></ul>
45a-59/048	having pulling or pushing means arranged on the front part of the tractor
45a-59/06	. for machines mounted on tractors
45a-61/00	Devices or parts specially adapted for preventing overstrain in soil-
	working machines
45a-61/02	working machines . of the coupling devices between tractor and machine
45a-61/04	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> </ul>
	. of the coupling devices between tractor and machine
45a-63/00 45a-63/02	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> <li>Special arrangements or adaptation of lifting devices for soil-working implements</li> <li>for implements mounted on tractors</li> </ul>
45a-61/04 <b>45a-63/00</b>	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> <li>Special arrangements or adaptation of lifting devices for soil-working implements</li> </ul>
45a-63/00 45a-63/02 45a-63/04 45a-63/06 45a-63/08	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> </ul> Special arrangements or adaptation of lifting devices for soil-working implements <ul> <li>for implements mounted on tractors</li> <li>Hand devices; Hand devices with mechanical accumulators, e.g. springs</li> <li>operated mechanically by tractor motor</li> <li>operated by the movement of the tractor</li> </ul>
45a-63/00 45a-63/02 45a-63/04 45a-63/06	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> </ul> Special arrangements or adaptation of lifting devices for soil-working implements <ul> <li>for implements mounted on tractors</li> <li>Hand devices; Hand devices with mechanical accumulators, e.g. springs</li> <li>operated mechanically by tractor motor</li> <li>operated by the movement of the tractor</li> <li>operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 – 81e-91, for grading and excavation 84d-1/06, 84d-3/00,</li> </ul>
45a-63/00 45a-63/02 45a-63/04 45a-63/06 45a-63/10 45a-63/10	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> </ul> Special arrangements or adaptation of lifting devices for soil-working implements <ul> <li>for implements mounted on tractors</li> <li>Hand devices; Hand devices with mechanical accumulators, e.g. springs</li> <li>operated mechanically by tractor motor</li> <li>operated by the movement of the tractor</li> <li>operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 - 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> <li>operated by an electric motor</li> </ul>
45a-63/00 45a-63/00 45a-63/02 45a-63/06 45a-63/08 45a-63/10 45a-63/12 45a-63/14	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> </ul> Special arrangements or adaptation of lifting devices for soil-working implements <ul> <li>for implements mounted on tractors</li> <li>Hand devices; Hand devices with mechanical accumulators, e.g. springs</li> <li>operated mechanically by tractor motor</li> <li>operated by the movement of the tractor</li> <li>operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 - 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> <li>operated by an electric motor</li> <li>for implements drawn by animals or tractors</li> </ul>
45a-63/00 45a-63/00 45a-63/02 45a-63/06 45a-63/08 45a-63/10 45a-63/12 45a-63/14 45a-63/16 45a-63/18	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> </ul> Special arrangements or adaptation of lifting devices for soil-working implements <ul> <li>for implements mounted on tractors</li> <li>Hand devices; Hand devices with mechanical accumulators, e.g. springs</li> <li>operated mechanically by tractor motor</li> <li>operated by the movement of the tractor</li> <li>operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 – 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> <li>operated by an electric motor</li> <li>for implements drawn by animals or tractors</li> <li>with wheels adjustable relatively to the frame</li> <li>with clutch between Z-type axle and wheel</li> </ul>
45a-63/00 45a-63/00 45a-63/02 45a-63/06 45a-63/08 45a-63/10 45a-63/12 45a-63/14 45a-63/16 45a-63/18 45a-63/20	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> </ul> Special arrangements or adaptation of lifting devices for soil-working implements <ul> <li>for implements mounted on tractors</li> <li>Hand devices; Hand devices with mechanical accumulators, e.g. springs</li> <li>operated mechanically by tractor motor</li> <li>operated by the movement of the tractor</li> <li>operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 – 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> <li>operated by an electric motor</li> <li>for implements drawn by animals or tractors</li> <li>with wheels adjustable relatively to the frame</li> <li>with clutch between Z-type axle and wheel</li> <li>with gear and rack</li> </ul>
45a-63/00 45a-63/00 45a-63/02 45a-63/06 45a-63/08 45a-63/10 45a-63/12 45a-63/14 45a-63/16 45a-63/18	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> </ul> Special arrangements or adaptation of lifting devices for soil-working implements <ul> <li>for implements mounted on tractors</li> <li>Hand devices; Hand devices with mechanical accumulators, e.g. springs</li> <li>operated mechanically by tractor motor</li> <li>operated by the movement of the tractor</li> <li>operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 – 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> <li>operated by an electric motor</li> <li>for implements drawn by animals or tractors</li> <li>with wheels adjustable relatively to the frame</li> <li>with clutch between Z-type axle and wheel</li> </ul>
45a-63/00 45a-63/00 45a-63/02 45a-63/06 45a-63/08 45a-63/10 45a-63/12 45a-63/14 45a-63/16 45a-63/18 45a-63/20 45a-63/20 45a-63/22	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> <li>Special arrangements or adaptation of lifting devices for soil-working implements</li> <li>for implements mounted on tractors</li> <li>. Hand devices; Hand devices with mechanical accumulators, e.g. springs</li> <li>. operated mechanically by tractor motor</li> <li>. operated by the movement of the tractor</li> <li>. operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 – 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> <li>. operated by an electric motor</li> <li>for implements drawn by animals or tractors</li> <li>with wheels adjustable relatively to the frame</li> <li>. with gear and rack</li> <li>. operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 – 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> <li>. Tools or tool-holders adjustable relatively to the frame</li> </ul>
45a-63/00 45a-63/00 45a-63/02 45a-63/04 45a-63/06 45a-63/10 45a-63/10 45a-63/12 45a-63/16 45a-63/16 45a-63/20 45a-63/20	<ul> <li>of the coupling devices between tractor and machine</li> <li>of the connection between tools and carrier beam or frame</li> </ul> Special arrangements or adaptation of lifting devices for soil-working implements <ul> <li>for implements mounted on tractors</li> <li>Hand devices; Hand devices with mechanical accumulators, e.g. springs</li> <li>operated mechanically by tractor motor</li> <li>operated by the movement of the tractor</li> <li>operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 - 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> <li>operated by an electric motor</li> <li>for implements drawn by animals or tractors</li> <li>with wheels adjustable relatively to the frame</li> <li>with clutch between Z-type axle and wheel</li> <li>with gear and rack</li> <li>operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 - 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> </ul>

45a-63/30 45a-63/32	<ul> <li> operated by motor power through a mechanical transmission</li> <li> operated by hydraulic or pneumatic means (servomotors in general 60, hydraulic actuation of lifting devices 35d-5, 35d-10/05, hydraulic actuation of loading devices 81e-84 – 81e-91, for grading and excavation 84d-1/06, 84d-3/00, 84d-9/00)</li> </ul>
45a-65/00	Devices for adjusting or regulating the position of tools or wheels
	(preventing overstrain 45a-61/00)
45a-65/02	. Lateral adjustment of tools
45a-65/04	. Lateral adjustment of wheels
45a-65/06	<ul> <li>Vertical adjustment of tools (using the lifting devices 45a-63/00); Control of working depth</li> </ul>
45a-65/08	Independent control of the vertical position by hydraulic or pneumatic means
45a-67/00	Devices for controlling the tractor motor by resistance of tools (preventing overstrain 45a-61/00)
45a-69/00	Steering devices for soil-working implements; Devices for guiding the
	tractor or implement along the desired track
45a-69/02	. Ridge-marking or like devices; Checkrow wires; Accessories therefor
45a-69/04	. Special adaptations of automatic tractor steering, e.g. electric system for contour
45- 00/00	ploughing
45a-69/06 45a-69/08	<ul> <li>Lateral steering of machines by an additional operator</li> <li>Lateral steering of machines derived from the lateral movement of tractor</li> </ul>
45a-71/00	Construction or arrangement of setting or adjusting mechanisms, of
	implement or tool drive or of power take-off; Means for protecting parts
	against dust, etc.; Adapting machine elements to or for agricultural
	purposes
45a-71/02	. Setting or adjusting mechanisms
45a-71/04 45a-71/06	<ul> <li>Bearings of rotating parts, e.g. for soil-working discs</li> <li>Special adaptations of coupling means between power take-off and transmission</li> </ul>
43a-7 1700	shaft to the implement or machine
45a-71/08	. Means for protecting against dust, etc.
45a-73/00	Means for transporting agricultural machines or implements
45a-75/00	Carriers for supporting persons when working in the field, e.g. while
	thinning beet
45a-77/00	Machines for lifting and treating soil (chemical treatment of soil 45I-7/00)
45a-79/00	Methods for working soil (essentially requiring the use of particular
	machines in the relevant groups for the machines)
45a-79/02	. combined with other agricultural processing, e.g. fertilising, planting
45b	Sowing and fertilising
	Treatment of seed and soil for planting, hand tools
45b-1/01	Treatment of seed before sowing (45f-5), also germinating apparatus (53g-4; 6a-10),
	seed tapes, seed strips, coating (coating compositions with fertilisers added 16;
	growth-promoting agents 45I-4/04)
45b-1/50	Seed dressing (pesticides 45I-4)
45b-2	Manure handling apparatus, e.g. pits for liquid manure, stacks
45b-3	Devices for hand sowing or hand fertilising
45b-4	Ploughs with devices for sowing or fertilising (45b-25) except 45a-16
45b-5	Spreaders for liquid manure, vats or wagons for liquid manure, devices for putting
	liquid manure into the soil (19b-4; fertilising watering installations 45f-22 – 45f-25)
45b-6/01	Manure spreaders
45b-6/10	Manure loaders (suspended railways 19a-23; loading devices in general 81e, 35b)
45b-6/20	Dung spreaders, dung forks (45c-2), disintegrating dung clods (45a-42, 45a-46)
430-0/20	_ ang optionality that ( to a _), and mag along the act ( to a, to a _ to )

45b-7	Hand tools for making holes or furrows for planting (implements for transplanting 45f-20)
45b-8	Machines for making or covering drills or furrows for sowing or fertilising (45a-17)
45b-9	Machines for making or covering holes for planting (45a-17)
	Sowing machines
45b-10	Sowing methods, broadcast seeders or seeders depositing seeds in rows (steering devices 45a-52)
45b-11	Single-grain seeders with or without suction devices
45b-12	Combined sowing machines and fertiliser spreaders
45b-13	Motor-driven sowing machines and fertiliser spreaders (45a-39; devices for connecting implements to tractors 45a-24)
45b-14	Parts of seeders for conducting and depositing seed
45b-15	Devices for adjusting the seed-box
45b-16	Seeders with toothed wheels; devices for conversion between overfeed and underfeed
45b-17	Seeders with spoon wheels
45b-18	Seeders with cell wheels
45b-19	Seeders with other distributing devices which are not covered by 45b-34, e.g. brushes, discs, screws, slides
45b-20	Machines for depositing seeds at intervals, other than those covered by 45b-11 – 45b-19
	Potato planters
45b-21	Potato planters in general
45b-22	Potato planters with bucket wheels or cell wheels
45b-23	Potato planters with piercing or grasping devices
45b-24	Potato planters with other distributing devices, e.g. flaps, screws, horizontal turning plates
45b-25	Potato planters mounted on ploughs (45b-4)
	Transplanting machines
45b-26/01	Transplanting machines for seedlings (for gardening, hand tools 45f-20)
45b-26/10	Machines for deeper setting or shifting of standing plants
45b-26/50	Machines for planting of sugar cane and the like
	Fertiliser distributors (19b-5)
45b-27	Fertiliser distributing and fertiliser distributors in general (45b-12, 45b-13), distributing be means of compressed air (fertilising methods 45l-2; steering devices 45a-52)
45b-28	Fertiliser distributors with simple distributing slots
45b-29	Fertiliser distributors with pushers or stirrers in the slots
45b-30	Fertiliser distributors with reciprocating pushers
45b-31	Fertiliser distributors with movable parts of the receptacle
45b-32	Fertiliser distributors with means for feeding out the fertiliser, e.g. by rollers
45b-33/01	Fertiliser distributors with means for pushing out the fertiliser
45b-33/10	Fertiliser distributors with endless chains
45b-34	Fertiliser distributors or seeders with centrifugal wheels (45b-3)
45b	(IPC: A01C) Planting; Sowing; Fertilising
45b-1/00	Apparatus, or methods of use thereof, for testing or treating seed, roots,
	or the like, prior to sowing or planting (chemicals therefor 45l-21/00 –
	45I-21/04)
45b-1/02	. Germinating apparatus; Determining germination capacity of seeds or the like
45b-1/04	(fermenting vessels for the production of malt 6a-10)  . Arranging seed on carriers, e.g. on tapes, on cords
45b-1/04 45b-1/06	. Coating or dressing seed (coating compositions with fertilisers added 16; growth-
	promoting agents 45I-21/02)

45b-1/08 . Immunising seed (immunising agents 45l-21/00, 45l-21/04)	
<b>45b-3/00 Treating manure; Manuring</b> (dung forks 45c-9/00) 45b-3/02 Storage places for manure, e.g. cisterns for liquid manure; Instal fermenting manure	llations for
45b-3/04 . Manure loaders (suspended railways 19a-23, 19a-25/00; grabs i loaders in general 81e)	in general 35b-6;
45b-3/06 . Manure distributors	
45b-5/00 Making and/or covering furrows or holes for sowing, pla manuring	inting, or
45b-5/02 . Hand tools for making holes for sowing, planting or manuring (traffer trees 45f-23/02)	ansplanting devices
45b-5/04 . Machines for making or covering holes for sowing or planting (pl working ridges 45a-13/02)	
45b-5/06 . Machines for making or covering drills or furrows for sowing or p 45b-5/08 . Machines for both manuring and sowing or both manuring and p	
<b>Sowing</b> (by motor-driven tools 45b-19/00; devices for guidin machines along the desired track 45a-69/00)	g sowing
<ul><li>45b-7/02 . Hand sowing implements</li><li>45b-7/04 . Single-grain seeders with or without suction devices</li></ul>	
45b-7/06 . Seeders combined with fertilising apparatus (soil-working impler	ments connected to
devices not working the ground 45a-49/04) 45b-7/08 . Broadcast seeders; Seeders depositing seeds in rows	
45b-7/10 Devices for adjusting the seed-box	
45b-7/12 Seeders with feeding-wheels 45b-7/14 Seeders with spoon or bucket wheels	
45b-7/16 Seeders with other distributing devices, e.g. brushes, discs, so endless chains 45b-15/18)	crews, slides (with
45b-7/18 Machines for depositing quantities of seed at intervals 45b-7/20 Parts of seeders for conducting and depositing seed	
<b>45b-9/00 Potato planters</b> (combined with soil-working implements 45 with conveyer belts	a-49/04)
45b-9/04 . with bucket wheels 45b-9/06 . with piercing or grasping devices	
45b-9/08 . with other distributing devices, e.g. flaps, screws, horizontal turn	ing plates
45b-11/00 Transplanting machines (transplanting devices for trees 45	5f-23/02)
45b-11/02 . for seedlings 45b-11/04 . for deeper setting or shifting of plants	
45b-13/00 Machines or apparatus for consolidating soil around pla	ints
<b>45b-15/00 Fertiliser distributors</b> (with motor-driven tools 45b-19/00; osowing machine 45b-7/06)	onnected to a
45b-15/02 . for hand use	
45b-15/04 . using blowers 45b-15/06 . with distributing slots	
45b-15/08 with pushers or stirrers in the slots	
45b-15/10 with reciprocating pushers 45b-15/12 . with movable parts of the receptacle	
45b-15/14 with means for lifting out the fertiliser	
45b-15/16 . with means for pushing out the fertiliser, e.g. by a roller 45b-15/18 . with endless chains	
45b-17/00 Fertilisers or seeders with centrifugal wheels	
45b-19/00 Fertilisers or seeders with motor-driven tools	
<b>45b-21/00 Methods of fertilising</b> (chemical treatment of soil 45l-7/00)	

45c-10/01

45c-10/02

45c-10/03

45b-23/00 45b-23/02 45b-23/04	Distributing devices specially adapted for liquid manure or other fertilising liquid, including ammonia, e.g. transport tanks, sprinkling wagons (watering fields in general 45f-25/00)  . Special arrangements for delivering the liquid directly into the soil  . Distributing under pressure; Distributing mud; Adaptation of watering systems for fertilising liquids
45c	Harvesting
	Hand implements
45c-1/01 45c-1/02 45c-1/03 45c-1/04 45c-1/05	Rakes for harvesting with tines rigidly connected to the rake-bar with adjustable rake-bar with tines specially shaped or attached with exchangeable tines combined with strippers, grippers, or the like or with forks or other tools
45c-2/01 45c-2/02 45c-2/03 45c-2/04	Forks, e.g. for hay and straw (dung forks 45b-6/20) with tines rigidly connected to the handle with exchangeable tines combined with strippers, grippers, or the like Handles and other details
45c-3/01 45c-3/02 45c-3/03 45c-3/04 45c-3/10 45c-3/20	Scythes, sickles and knives (manufacture 7c-42; 7f-5) with simple fastening of the blade by means of screwing, by rings etc. with blade fastening by means of eccentric levers with blades adjustable in several ways Handles; Accessories, e.g. scythe baskets, safety devices Sickles Knives
45c-4/01 45c-4/02 45c-4/03 45c-4/04 45c-4/10	Percussive or pressing sharpening devices for scythes, sickles, or the like with percussive tools with pressing jaws with pressing rollers or pressing discs Details, e.g. scythe anvils, scythe guides Containers for whetstones (abrasive tools 67c-4)
45c-5/01 45c-5/02 45c-5/03	Hand implements for lifting beet, potatoes, or other root crops for handling root crops, e.g. potato shovels for cropping beet or other root crops
45c-6	Potato harvesters Potato ploughs
45c-7/01 45c-7/02	Potato harvesters with sieve grates but without conveying mechanisms with rigid grates with moving grates
45c-8 45c-9	Potato harvesters with sieving and conveying mechanisms above the sieving device below the sieving device

Potato harvesters with sieving and disintegrating mechanisms

with sieving and disintegrating mechanisms acting on the potato ridge from above

with rollers or disc screens

with shaker type screens

45c-11/01 45c-11/02 45c-11/03 45c-11/04	Potato harvesters with band or chain conveyors with smooth conveyor belts, lath bands, or rake bands with sifter bands, endless chain sieves with scoop wheels or drums with several co-operating sifter bands
45c-12/01 45c-12/02 45c-12/03	Potato harvesters with cylindrical screens without a conveyor spiral with cylindrical screens with a conveyor spiral with several co-operating cylindrical screens
45c-13/01 45c-13/02 45c-13/03	Potato harvesters med with centrifugal wheels, drums, or spinners rotating round a horizontal axis arranged parallel to the direction of travel with scoop wheels or drums with working tools arranged on an endless chain with receiving screens and implements for depositing the root crops
	Potato harvesters with working tools arranged on an approximately vertical axis
45c-14/01 45c-14/02 45c-14/03 45c-15	with one screening wheel with several screening wheels with screen tine chains Potato harvesters with working tools rotating round a horizontal axis arranged transverse to the direction of travel
45c-16/01 45c-16/02 45c-16/20	Potato harvesters med with potato-picking implements with picking tools moved up-and-down with rotating picking tools  Special potato harvesters, e.g. combined with seeders, planters, haymakers, etc.
45c-17/01 45c-17/02 45c-17/03 45c-17/04	Devices for separation of stones and foliage Crop collecting devices, with or without weighing apparatus Special sorting and cleaning mechanisms Driving mechanisms, with or without motor; clutches and lifting and lowering mechanisms for the tools Other details
	Machines for harvesting beet and other root crops
45c-18/01 45c-18/02 45c-18/03 45c-18/50	Lifters for beet or like crops with rigid tools with moving or rotating tools Collecting and depositing devices and other details Harvesters for peanuts, onions, chicory, etc.
45c-19/01 45c-19/02 45c-19/03	Topping machines cutting the tops before being lifted cutting the tops after being lifted with collecting and depositing devices for the tops, devices for protecting the tops against damage and other details
	Harvesting machines for grass, cereals or other crops
45c-20/01 45c-20/02 45c-20/03	Harvesters with reciprocating cutter-bars without delivering devices Harvesters for grass Driving mechanisms for the knives of grass harvesters, cranks, cams, connecting-rods Mechanisms for lifting the cutting apparatus by means of manual power or power derived from the driving wheels

45c-20/04	Mechanisms for adjusting the cutting apparatus
45c-20/05	Devices for disconnecting the cutting apparatus when lifting the cutting apparatus
45c-20/06	Harvesters cutting both to the left and the right
45c-20/07	Harvesters with the cutting apparatus placed centrally in front of the driving mechanism (45c-26/30)
45c-20/10	Harvesters except 45c-20/01 – 45c-20/07, also in connection with other agricultural machines, e.g. hay rakes, tedders, ploughs, harrows
	Harvesters with delivering devices
45c-21/01	Harvesters for cereals
45c-21/02	Harvesters for cereals med tilting tables
45c-21/03	Devices for delivering standing stalks (45c-24/05; 45c-29/03)
45c-21/04	Delivering devices with rakes rotating around a vertical axis
45c-21/05	Delivering devices with reels
45c-21/06	Adjustable reels
45c-21/07	Endless conveyors used as reels
45c-21/08	Swinging rakes used as reels
45c-21/09	Fans used as reels
45c-21/10	Devices for laying out twine (45c-29/10)
	Cutting apparatus for harvesters
45c-22/01	Cutting apparatus with reciprocating cutting-blades
45c-22/02	Knives, counter-knives
45c-22/03	Guides for the knives
45c-22/04	Holding-down devices for the knives
45c-22/05	Fingers
45c-22/06	Finger bars
45c-22/10	Cutting apparatus with horizontally rotating knives
45c-22/11	Helical rotating knives (rotary cutting cylinders for lawn-mowers 45c-25)
45c-22/12	Swinging knives
45c-22/13	Cutters with blades on endless belts or sprocket chains
45c-22/14	Cutting apparatus except 45c-22/01 – 45c-22/13
45c-23/01	Grain-crop lifters
45c-23/02	Rods for lifting laying crops, driving mechanisms therefor
45c-23/03	Grain-crop lifters arranged in front of the wheels
45c-23/10	Dividers
45c-23/20	Devices for protecting animals
	Harvesters convertible from grass harvesters to cereal harvesters
45c-24/01	Grass harvesters with additional delivering devices, auxiliary plates, delivery rakes
45c-24/02	Endless conveyors for delivering
45c-24/03	Tiltable tables for delivering
45c-24/04	Tiltable grates for delivering
45c-24/05	Devices for delivering standing stalks (45c-21/03; 45c-29/03)
	Lawn-mowers
45c-25/01	with rotary cutting cylinders
45c-25/02	with reciprocating cutting-blades (45c-22/01 - 45c-22/06)
45c-25/03	with hand-driven cutting-tools (grass shears, hedge shears 45f-4/02, 45f-4/05)
45c-25/04	with other cutting apparatus, e.g. combining several cutters or cutters without fingers
45c-25/05	Lawn-mowers for lawn edges (for lawn edges for lawns 45f-4/05)
45c-25/06	Arrangements for leading the grass to the cutter
45c-25/07	Delivery devices (45c-21; 45c-24; lawn sweepers 45f-4/05)
45c-25/08	Details of lawn-mowers

	Motor-driven harvesters
45c-26/01	with manual steering
45c-26/05	Motor-driven lawn-mowers with rotary cutting cylinders
45c-26/10	Motor-driven grass harvesters with the cutting apparatus arranged at the side [-59]
45c-26/15	Motor-driven cereal harvesters with the cutting apparatus arranged at the side
45c-26/20	Motor-driven binders equipped with engines
45c-26/30	Motor-driven harvesters with the cutting apparatus placed centrally in front of the driving mechanism (motor-driven combines 45c-28)
45c-26/40	Motor-driven cutting apparatus, devices for disconnection of the driven when hitting an obstacle
45c-26/41	Electrical driving mechanisms for rotating knives
45c-26/42	Electrical driving mechanisms for reciprocating knives
45c-26/50	Auxiliary harvesters for tractors
45c-26/60	Tractor-drawn harvesters, driven by power take-off
45c-26/65	Arrangements for trailing two or more harvesters or mowers
45c-27/01	Headers
45c-27/10	Harvesters with non-movable knives, stalk cutters
45c-27/20	Harvesters for grass seed
45c-27/30	Harvesters for flax, machines for up-rooting flax
45c-27/40	Reed cutters, harvesters for reed
45c-27/50	Harvesters for sugar cane
45c-27/60	Harvesters for maize
45c-27/71	Cotton harvesters with blowers
45c-27/72	Cotton harvesters with pickers
45c-27/80	Other harvester, not covered by 45c-27/01 – 45c-27/72, e.g. for rice, tobacco, coffee,
	tea, beans, peas
	Combines (threshers 45e-2 – 45e-11)
45c-28/01	in general
45c-28/05	for threshing standing stalks
45c-28/10	with headers (45c-27/01)
45c-28/20	motor-driven
45c-28/30	Tractor-driven combines
45c-28/50	Details
45c-28/80	with windrow pick-up apparatus
	Self-binders
45c-29/01	binding with threads or wire
45c-29/02	Low binders
45c-29/03	conveying the stalks in vertical position (45c-21/03; 45c-24/05)
45c-29/10	binding with stalks or straw bands (45c-21/10)
45c-29/20	Sheaf carriers, sheaf collectors
45c-29/30	Sheaf shockers or stookers (45c-37/20)
45c-29/40	Self-binders, also as auxiliary device of harvesters (hay binders 45c-37/10)
45c-30	Binding apparatus, transmissions therefor
45c-31	Knotters, packers, needles
45c-32/01	Transporting devices for self-binders (81e)
45c-32/02	Fabric conveyors
45c-32/04	Chain conveyors
45c-32/10	Crop loaders (45c-37)
45c-33/01	Collectors for lost grains for harvesters
45c-33/02	Undercarriages, frames, mechanisms for adjusting the frame (adjusting the cutting apparatus 45c-20/04), platforms

45c-33/03	Sheaf counters
45c-33/04	Sharpening apparatus (67a)
45c-33/05	Gearings (45c-20/02; 47h)
45c-33/06	Clutches (47c); brakes (47c-17; 63a-45 – 63a-54)
45c-33/07	Lubrication (47e)
45c-33/08	Wheels, scrapers for removing dirt from wheels (63d; grain-crop lifters arranged in front of the wheels 45c-23/03)
45c-33/10	Attachment of connecting-rods, connecting-rod linkages
45c-33/11	Main bearings for connecting-rods
45c-33/20	Miscellaneous details not covered by $45c-33/01 - 45c-33/11$ , e.g. protection against rain and wind, tools for extraction of knives
	Draught assemblies
45c-34/01	Front wheel assemblies, also with steering (63c)
45c-34/02	Draught assemblies
45c-34/03	Poles (63a-19 – 63a-24)
45c-34/04	Supports or wheels for poles
45c-34/05	Preventing or limiting side-play of implements
45c-34/06	Front wheel assemblies for harvesters
45c-34/07	Front wheel assemblies for lawn-mowers
	Implements for haymaking
45c-35/01	Horse rakes with automatic or manual delivery
45c-35/05	Wheel rakes (45c-1)
45c-35/06	Pushed rakes, pulled rakes, motor-driven pulled rakes
45c-35/10	Rotating rakes for windrowing
45c-36/01	Rotating tedders, tedders for turning or windrowing
45c-36/02	Eccentric control mechanisms for rotating turners
45c-36/10	Tedders with forks
45c-36/20	Turners with rake cylinder, combined machines
45c-36/30	Other turners or tedders (45c-20/10)
	Hay loaders
45c-37/01	with rakes, also pushed rakes
45c-37/01 45c-37/02	with rakes, also pushed rakes without rakes
45c-37/02 45c-37/03	with oscillating rakes or forks
45c-37/03 45c-37/04	with vindrow rakes
45c-37/04 45c-37/05	with blowers (81e-65)
45c-37/06	with bolomers (61e-65) with baling presses
45c-37/07	Miscellaneous hay loaders not covered by 45c-37/01 – 45c-37/06
45c-37/10	Hay gatherers with binding mechanism (45c-29/40)
45c-37/10	Devices for stacking hay (sheaf shockers 45c-29/30)
45c-37/30	Loaders for sheaves or stacks
45c Hand impler	(IPC: A01D) Harvesting
45c-1/00	Hand cutting implements for harvesting (rolling of scythes, sickles and
45c-1/02	knives 7f-5) . Scythes (manufacture from sheet metal 7c-42)
45c-1/04	. Sickles (manufacture from sheet metal 7c-42)
45c-1/06	. Knives (manufacture from sheet metal 7c-41)
45c-1/08	. Attaching means for blades
45c-1/10	with fastening by means of eccentric levers
45c-1/12 45c-1/14	with blades adjustable in several ways . Handles; Accessories, e.g. scythe baskets, safety devices
→. IC.= 1/14	. Flanules, Accessories, e.g. scylile baskets, safety devices

<b>45c-3/00</b> 45c-3/02 45c-3/04	Non-abrasive sharpening devices for scythes, sickles, or the like  . with percussive tools  . with pressing jaws
45c-3/06 45c-3/08	<ul><li>with pressing rollers or pressing discs</li><li>Details, e.g. scythe anvils, scythe guides</li></ul>
45c-5/00	Containers for whetstones for use during harvesting (whetting implements $67\text{c4}$ )
<b>45c-7/00</b> 45c-7/02 45c-7/04 45c-7/06 45c-7/08 45c-7/10	Rakes . with tines rigidly connected to the rake-bar . with adjustable rake-bar . with tines specially shaped or attached . with exchangeable tines . combined with strippers, grippers, or the like
<b>45c-9/00</b> 45c-9/02 45c-9/04 45c-9/06	Forks . with tines rigidly connected to the handle . with exchangeable tines . combined with strippers, grippers, or the like
<b>45c-11/00</b> 45c-11/02 45c-11/04 45c-11/06	Other hand implements . for lifting or cropping beet, potatoes, or other root crops . for handling root crops, e.g. shovels, fork-like shovels . Combined implements, e.g. fork and rake
Machines for	harvesting root crops
45c-13/00	Diggers, e.g. potato ploughs
<b>45c-15/00</b> 45c-15/02 45c-15/04	Digging machines with sieve grates but without conveying mechanisms . with rigid grates . with moving or vibrating grates
45c-17/00 45c-17/02 45c-17/04 45c-17/06 45c-17/08 45c-17/10 45c-17/12 45c-17/14 45c-17/16 45c-17/20 45c-17/22	Digging machines with sieving and conveying mechanisms  . with conveyers arranged above the sieving device . with conveyers arranged below the sieving device . with rollers or disc screens . with shaker type screens . with smooth conveyor belts, lath bands, or rake bands . with bucket conveyors . with cylindrical screens . with a conveyor spiral . without a conveyor spiral . with several co-operating screens . with several co-operating sifter bands
45c-19/00	Digging machines with centrifugal wheels, drums, or spinners
45c-19/02 45c-19/04	<ul> <li>with working tools rotating round a horizontal axis arranged transverse to the direction of travel</li> <li>with working tools rotating round a horizontal axis arranged parallel to the direction of travel</li> </ul>
45c-19/06 45c-19/08 45c-19/10 45c-19/12 45c-19/14 45c-19/18	<ul> <li>with scoop wheels or drums</li> <li>with scoop tine chains</li> <li>with receiving screens; Implements for depositing the root crops</li> <li>with working tools arranged on an approximately vertical axis</li> <li>with one screening wheel</li> <li>with several screening wheels</li> <li>with screen tine chains</li> </ul>
<b>45c-21/00</b> 45c-21/02 45c-21/04	Digging machines with potato-picking implements . with picking tools moved up-and-down . with rotating picking tools

45c-23/00 **Topping machines** 45c-23/02 . cutting the tops before being lifted 45c-23/04 . cutting the tops after being lifted 45c-23/06 . with collecting and depositing devices for the tops; Devices for protecting the tops against damage 45c-25/00 Lifters for beet or like crops 45c-25/02 . Machines with rigid tools 45c-25/04 . Machines with moving or rotating tools 45c-27/00 Machines with both topping and lifting mechanisms 45c-27/02 . with rigid tools 45c-27/04 . with moving or rotating tools 45c-29/00 Harvesters for peanuts 45c-31/00 Other digging harvesters 45c-31/02 . combined with other agricultural machines, e.g. drilling, planting, hay-harvesting machines 45c-33/00 **Accessories for digging harvesters** 45c-33/02 . Foliage-separating mechanisms . Stone-separating mechanisms 45c-33/04 45c-33/06 . Haulm-cutting mechanisms 45c-33/08 . Special sorting and cleaning mechanisms 45c-33/10 . Crop collecting devices, with or without weighing apparatus 45c-33/12 . Driving mechanisms, with or without motor 45c-33/14 . Lifting and lowering mechanisms for the tools Harvesting machines for grass, cereals or other crops 45c-35/00 Harvesters; Mowers (hand-driven lawn-mowers 45c-53/00 – 45c-53/14) 45c-35/02 . with lateral reciprocating cutter-bars . . drawn by horse or tractor 45c-35/04 . . . with cutter-bars at the front 45c-35/06 . . . with cutter-bars at the side 45c-35/08 45c-35/10 . . . with cutter-bars driven by a power take-off from the tractor 45c-35/12 . . Mowers mounted on tractors; Self-propelled mowers 45c-35/14 . . . with cutter-bars at the front . . . with cutter-bars at the side 45c-35/16 45c-35/18 . . . with cutter-bars at the back . . guided by hand 45c-35/20 45c-35/22 . . . Delivering devices; Collecting devices, e.g. grass-boxes . with motor-driven rotary cutting-cylinders 45c-35/24 . with motor-driven cutting-blades rotating round a vertical axis 45c-35/26 45c-35/28 . for use on embankments, ditches, hills, etc. 45c-37/00 Reaper-binders 45c-37/02 . with receiving platform and binding apparatus but without elevating canvases 45c-37/04 . conveying the stalks in vertical position (delivery devices for vertical straws 45c-57/22) 45c-37/06 . binding with stalks or straw bands (devices for supplying sheaf bands 45c-75/16) 45c-39/00 Independent binders; Binders attachable to mowers; Hay-binders 45c-41/00 Harvester-threshers; Combines (threshing, cleaning, pressing and chopping devices for combines 45e-7/00 – 45e-7/58) 45c-41/02 . Self-propelled combines . Tractor-driven combines 45c-41/04 . Combines with headers (headers 45c-47/00) 45c-41/06 45c-41/08 . Combines which thresh before the stalk is cut 45c-41/10 . Field threshers with windrow pick-up apparatus 45c-41/12 . Details of combines

45c-43/00 45c-43/02 45c-43/04 45c-43/06 45c-43/10 45c-43/12	Harvesters combined with other machines or apparatus  . with rakes  . with tedders  . with loaders (loaders for hay and similar crops 45c-87/00)  . with chaff-cutters (construction of the chaff-cutter 45e-29/00 – 45e-29/20)  . with arrangements for bruising the stalk  . with ploughs or other implements for cultivating the soil
45c-45/00 45c-45/02 45c-45/04 45c-45/06 45c-45/10 45c-45/12 45c-45/14 45c-45/16 45c-45/18 45c-45/20 45c-45/22 45c-45/24 45c-45/28 45c-45/30	Harvesters for special crops (for fruit or hops 45f-19/00 – 45f-19/08)  for maize  for rice  for flax  for underwater plants  for sugar-cane  for tea  for coffee  for tobacco  for cotton  Pneumatic pickers  for beans  for peas  for cabbage  for spinach  of grass or like seeds
45c-47/00	Headers
45c-49/00	Stalk cutters or crushers; Flail harvesters or mowers
45c-51/00	Apparatus for gathering together crops spread on the soil, e.g. apples, beets, nuts, potatoes
<b>45c-53/00</b> 45c-53/02	<b>Lawn-mowers driven by hand</b> (motor mowers 45c-35/24, 45c-35/26) . with rotary cutting cylinders
45c-53/04 45c-53/06 45c-53/08 45c-53/10 45c-53/12 45c-53/14	<ul> <li>. Arrangements for leading the grass to the cutter</li> <li>. Collecting devices, e.g. grass-boxes</li> <li>. Other details (horizontally rotating cutters 45c-55/18)</li> <li>. with reciprocating cutting-blades (cutter bars with reciprocating cutters for harvesting machines 45c-55/02 – 45c-55/14)</li> <li>. with separate hand-drive for cutting-tools (lawn clippers 45f-3/06)</li> <li>. for lawn edges (for lawn edges 45f-3/06)</li> </ul>
45c-53/06 45c-53/08 45c-53/10 45c-53/12 45c-53/14	<ul> <li>Collecting devices, e.g. grass-boxes</li> <li>Other details (horizontally rotating cutters 45c-55/18)</li> <li>with reciprocating cutting-blades (cutter bars with reciprocating cutters for harvesting machines 45c-55/02 – 45c-55/14)</li> <li>with separate hand-drive for cutting-tools (lawn clippers 45f-3/06)</li> </ul>
45c-53/06 45c-53/08 45c-53/10 45c-53/12 45c-53/14	<ul> <li>Collecting devices, e.g. grass-boxes</li> <li>Other details (horizontally rotating cutters 45c-55/18)</li> <li>with reciprocating cutting-blades (cutter bars with reciprocating cutters for harvesting machines 45c-55/02 – 45c-55/14)</li> <li>with separate hand-drive for cutting-tools (lawn clippers 45f-3/06)</li> <li>for lawn edges (for lawn edges 45f-3/06)</li> </ul>

45c-57/00 45c-57/04 45c-57/04 45c-57/04 45c-57/04 45c-57/08 - Reels or the like - Enclass conveyors used as reels - Fans used as reels - F		
45c-57/04 45c-57/08 5c-57/08 45c-57/08 45c-57/08 45c-57/12 45c-57/12 45c-57/12 45c-57/13 45c-57/14 45c-57/12 45c-57/14 45c-57/15 45c-57/18 45c-57/16 45c-57/18 45c-57/18 45c-57/18 45c-57/18 45c-57/18 45c-57/18 45c-57/18 45c-57/26 45c-57/26 45c-57/26 45c-57/26 45c-57/30 45c-57/30 45c-57/30 45c-57/30 45c-59/32 45c-59/		
45c-57/06 45c-57/06 45c-57/10 45c-57/12 45c-57/12 45c-57/12 45c-57/12 45c-57/12 45c-57/16 45c-57		
45c-57/08 45c-57/12 45c-57/13 45c-57/12 45c-57/12 45c-57/12 45c-57/12 45c-57/12 45c-57/13 45c-57/12 45c-57/13 45c-57		
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45c-57/28		
45c-57/20 with conveyor belts 45c-57/26 (Grass-boards 45c-57/26 Plates arranged behind the cutter-bar for guiding the cut grass or straw 45c-57/26 (Srass-boards 45c-57/30 (Stating attachments with tines 45c-57/30 (Stating attachments for forming windrows 45c-57/30 (Stating attachments for forming windrows 45c-59/00 (Srass-boards) (Sra		
45c-57/26 45c-57/26 45c-57/26 45c-57/26 45c-57/26 45c-57/30 45c-57/30 45c-57/30 45c-57/30 45c-57/30 45c-57/30 45c-59/00 45c-59/00 45c-59/00 45c-59/02 45c-59/02 45c-59/02 45c-59/03 45c-59/04 45c-59/04 45c-59/04 45c-59/12 45c-59/12 45c-59/14 45c-59/12 45c-59/14 45c-69/10 45c-69/10 45c-69/10 45c-69/02 45c-69/04 45c-69/08 45c-69	45c-57/20	
45c-57/26 45c-57/28 45c-57/28 45c-57/30 45c-57/30 45c-57/30 45c-57/30 45c-57/30 45c-59/00 45c-69/00 45c-69	45c-57/22	. for standing stalks
45c-57/28		
45c-57/30 Rotating attachments for forming windrows 5c-59/00 45c-59/00 45c-59/00 45c-59/00 45c-59/01 45c-59/06 45c-59/06 45c-59/06 45c-59/08 45c-59/08 45c-59/10 45c-59/10 45c-59/10 45c-61/00 Elevators or conveyors for binders or combines (conveying in general 81e) 45c-61/00 45c-61/00 Elevators or conveyors for binders or combines (conveying in general 81e) 45c-61/00 45c-61/00 45c-63/00 45c-63/00 45c-63/00 45c-65/00 45c-65/00 45c-65/00 45c-65/00 45c-65/00 45c-65/00 45c-65/00 45c-65/00 45c-65/00 45c-67/00 45c-67/00 45c-69/00 45c-69/01 45c-69/01 45c-69/01 45c-69/01 45c-69/01 45c-69/01 45c-69/01 45c-69/01 45c-69/02 45c-69/01 45c-69/		
45c-59/02 Binding equipment for harvesters 45c-59/06 Sepolus Asc-59/06 Asc-59/10 Asc-59/10 Devices for separating cohering sheaves 45c-59/10 Devices for separating cohering sheaves 45c-59/10 Devices for separating cohering sheaves 45c-59/10 Containers for the twine (twine balls and their manufacture 76d) 45c-59/12 Sepolus Asc-61/02 Elevators or conveyors for binders or combines (conveying in general 81e) 45c-61/02 Elevators or conveyors for binders or combines 45c-63/00 Cutside dividers 45c-63/00 Asc-63/00 Asc-		
45c-59/00 45c-59/02 45c-59/06 45c-59/06 45c-59/06 45c-59/08 45c-59/08 45c-59/08 45c-59/08 45c-59/08 45c-59/08 45c-59/08 45c-59/10 5eedles 45c-59/10 45c-61/00 Elevators or conveyors for binders or combines (conveying in general 81e) 45c-61/02 45c-61/02 45c-63/00 45c-63/00 Outside dividers 45c-63/00 45c-63/00 45c-65/00 45c-66/00 45c-69/00 45c-69/01 45c-69/01 45c-69/01 45c-69/02 45c-69/04 45c-69/04 45c-69/06 45c-69/06 45c-69/07 45c-69/08 45c-69/		
45c-59/02 Packers 45c-59/06 Needles 45c-59/06 Needles 45c-59/06 Needles 45c-59/08 Discharge arms 45c-59/10 Sheaf counters  45c-59/14 Sheaf counters  45c-61/00 Elevators or conveyors for binders or combines (conveying in general 81e) 45c-61/02 Endless belts 45c-63/02 Chains  45c-63/02 Non-rotating dividers 45c-63/02 Non-rotating dividers 45c-65/06 Lifting devices arranged on the inner side of the cutter-bar 45c-65/06 Undercarriages specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Platforms 45c-67/02 Seats  45c-69/00 Driving mechanisms; Parts thereof 45c-69/00 Seating (in general 47c) 45c-69/12 Lubrication (in general 47c) 45c-69/18 Unels (wheels for agricultural machines in general 45a-55/00) 45c-69/18 Wheels (wheels for agricultural machines in general 45a-55/00) 5crappers for removing dirt	450-57/32	. Detachable reels for converting a mower into a narvester
45c-59/04		
45c-59/06 45c-59/08 45c-59/10 45c-59/12 45c-59/14 45c-59/14 45c-61/00 Elevators or conveyors for binders or combines (conveying in general 81e) 45c-61/02 45c-61/04 45c-63/02 45c-63/02 45c-63/02 45c-65/08 45c-65/08 45c-65/08 45c-65/08 45c-65/08 45c-65/08 45c-65/09 45c-65/09 45c-67/00  Dutside dividers 45c-65/00 45c-69/00 45c-69/00 45c-69/00 45c-69/00 45c-69/01 45c-69/02 45c-69/04 45c-69/06 45c-69/06 45c-69/06 45c-69/06 45c-69/06 45c-69/07 45c-69/08 45c-69/08 45c-69/08 45c-69/10 45c-69/10 45c-69/10 45c-69/12 45c-69/10 45c-69/12 45c-69/12 45c-69/18 Devices for connecting the rod to the knife-bar Devices for connecting the rod to the knife-bar Devices for connecting the rod to the crank-pin of the driving mechanism Wheels (wheels for agricultural machines in general 45a-55/00) Scrapers for removing dirt		
45c-59/08 45c-59/10 45c-59/10 45c-59/14 45c-59/14 45c-59/14 45c-59/14 45c-61/00 Elevators or conveyors for binders or combines (conveying in general 81e) 45c-61/02 45c-61/04 45c-63/02 45c-63/02 45c-63/04 45c-63/04 45c-65/06 45c-65/06 45c-65/06 45c-65/06 45c-65/07 45c-65/08 45c-65/08 45c-65/08 45c-65/09 45c-65/09 45c-65/00 45c-69/00 45c-69/01 45c-69/01 45c-69/01 45c-69/02 45c-69/02 45c-69/02 45c-69/02 45c-69/02 45c-69/03 45c-69/04 45c-69/06 45c-69/06 45c-69/07 45c-69/08 45c-69/08 45c-69/08 45c-69/08 45c-69/10 45		
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45c-59/12 45c-59/14 45c-61/00 Elevators or conveyors for binders or combines (conveying in general 81e) 45c-61/02 45c-61/04 Elevators belts 45c-63/00 45c-63/00  45c-63/00  45c-63/00  45c-63/00  45c-65/00  45c-66/00  45c-66/00  45c-66/00  45c-66/00  45c-67/00  45c-67/00  45c-67/00  45c-69/00  45c-69/00  45c-69/00  45c-69/00  45c-69/00  45c-69/00  45c-69/00  45c-69/01  45c-69/01  45c-69/02  45c-69/02  45c-69/04  45c-69/04  45c-69/06  45c-69/06  45c-69/07  45c-69/08  45c-69/08  45c-69/09  45c-69/10  45c-		
45c-61/00 45c-61/02 45c-61/02 45c-63/00 45c-63/00 45c-63/00 45c-65/00 45c-67/00 45c-69/00 45c-69/00 45c-69/00 45c-69/00 45c-69/00 45c-69/00 45c-69/00 45c-69/00 45c-69/00 45c-69/01 45c-69/01 45c-69/02 45c-69/02 45c-69/02 45c-69/03 45c-69/04 45c-69/04 45c-69/06 45c-69/08 45c-69/10 45c-69		
## Sc-61/00    Elevators or conveyors for binders or combines (conveying in general 81e)  ## Ac-61/02  ## Ac-61/04  ## Ac-63/00  ## Ac-63/00  ## Ac-63/00  ## Ac-65/00  ## Ac-		
45c-61/02 . Endless belts 45c-63/00 Outside dividers 45c-63/02 . Rotating dividers 45c-63/04 . Non-rotating dividers 45c-65/05 . Lifting fingers 45c-65/06 . Lifting fingers 45c-65/06 . Lifting fingers 45c-65/08 . Lifting devices arranged on the inner side of the cutter-bar 45c-65/08 . Lifting devices arranged on the inner side of the cutter-bar 45c-65/08 . Lifting devices arranged on the inner side of the cutter-bar 45c-65/08 . Lifting devices arranged on the inner side of the cutter-bar 45c-65/08 . Guard attachments for the wheels  45c-67/00 Undercarriages specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Mechanisms for adjusting the frame (adjusting devices for the cutter-bar 45c-55/32); Platforms 45c-67/02 . Protection against weather 45c-69/04 . Seats  45c-69/00 Driving mechanisms; Parts thereof 45c-69/02 . Electric drive 45c-69/06 . Gearings (in general 47h) 45c-69/08 . Clutches (in general 47c) 45c-69/10 . Brakes (in general 47c) 45c-69/10 . Lubrication (in general 47c) 45c-69/11 . Lubrication (in general 47c) 45c-69/12 . Lubrication (in general 47c) 45c-69/13 . Devices for connecting the rod to the knife-bar 45c-69/18 . Devices for connecting the rod to the crank-pin of the driving mechanism  45c-71/00 Wheels (wheels for agricultural machines in general 45a-55/00) 45c-71/00 . Scrapers for removing dirt		
45c-61/02 45c-63/00 45c-63/00 45c-63/02 45c-63/04 A5c-65/00 45c-65/00 45c-65/00 45c-65/00 45c-65/00 45c-65/02 45c-65/04 45c-65/08 45c-65/08 45c-65/08 45c-65/08 45c-67/00 45c-67/00 45c-67/00 45c-67/00 45c-67/00 45c-67/02 45c-67/04 45c-69/02 45c-69/02 45c-69/02 45c-69/02 45c-69/02 45c-69/04 45c-69/06 45c-69/06 45c-69/01 45c-69/08 45c-69/08 45c-69/08 45c-69/08 45c-69/08 45c-69/08 45c-69/09 45c-69/10 45c-71/00	45c-61/00	· · · · · · · · · · · · · · · · · · ·
45c-63/00 Outside dividers 45c-63/02 Rotating dividers 45c-65/04 Non-rotating dividers 45c-65/05 Grain-crop lifters 45c-65/06 Lifting fingers 45c-65/06 Lifting devices arranged on the inner side of the cutter-bar 45c-65/06 Lifting devices arranged on the inner side of the cutter-bar 45c-65/06 Undercarriages specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Mechanisms for adjusting the frame (adjusting devices for the cutter-bar 45c-55/32); Platforms 45c-67/02 Protection against weather 45c-67/04 Seats  45c-69/00 Driving mechanisms; Parts thereof 45c-69/02 Electric drive 45c-69/02 Gearings (in general 47h) 45c-69/08 Clutches (in general 47c) 45c-69/10 Brakes (in general 47c) 45c-69/12 Lubrication (in general 47e) 45c-69/14 Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) 45c-69/18 Devices for connecting the rod to the knife-bar 5c-69/18 Usheels (wheels for agricultural machines in general 45a-55/00) 5crapers for removing dirt		
45c-63/00 45c-63/02 45c-63/04     Rotating dividers     Non-rotating dividers 45c-65/00 45c-65/00 45c-65/02     Lifting fingers 45c-65/08     Lifting devices arranged on the inner side of the cutter-bar 45c-65/08     Cuard attachments for the wheels 45c-65/08  45c-67/00  45c-67/00  45c-67/00  45c-67/02 45c-67/04  45c-69/00  45c-69/00  45c-69/00  45c-69/00  45c-69/01  45c-69/01  45c-69/10  45c-69/10  45c-69/12  45c-69/14  45c-69/16  45c-69/18  45c-69/10  45c-		
45c-63/02 . Rotating dividers 45c-63/04 . Non-rotating dividers 45c-65/00 . Srain-crop lifters 45c-65/02 . Lifting fingers 45c-65/04 . With revolving staffs 45c-65/08 . Lifting devices arranged on the inner side of the cutter-bar 45c-65/08 . Guard attachments for the wheels 45c-65/08 . Undercarriages specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Mechanisms for adjusting the frame (adjusting devices for the cutter-bar 45c-55/32); Platforms 45c-67/02 . Protection against weather 45c-69/04 . Seats 45c-69/00 . Electric drive 45c-69/02 . for mowers 45c-69/08 . Clutches (in general 47c) 45c-69/10 . Brakes (in general 47c) 45c-69/10 . Lubrication (in general 47e) 45c-69/11 . Devices for connecting the rod to the knife-bar 45c-69/18 . Devices for connecting the rod to the crank-pin of the driving mechanism 45c-71/00 . Scrapers for removing dirt	45c-61/04	. Chains
45c-63/04 . Non-rotating dividers  45c-65/00 Grain-crop lifters . Lifting fingers . Lifting fingers . Lifting devices arranged on the inner side of the cutter-bar . Guard attachments for the wheels  45c-65/08 Undercarriages specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Platforms . Protection against weather . Seats  45c-67/04 Seats  45c-69/00 Driving mechanisms; Parts thereof . Electric drive . for mowers . Gearings (in general 47r) . Clutches (in general 47c) . Lubrication (in general 47e) . Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) . Devices for connecting the rod to the knife-bar . Devices for connecting the rod to the crank-pin of the driving mechanism  45c-71/00 Wheels (wheels for agricultural machines in general 45a-55/00) . Scrapers for removing dirt		
45c-65/00 45c-65/02 45c-65/04 45c-65/06 45c-65/08 45c-65/08 45c-65/08  45c-67/00  45c-67/00  45c-67/00  45c-67/00  45c-67/02 45c-67/04 45c-67/04  45c-69/00  45c-69/02 45c-69/02 45c-69/04 45c-69/06 45c-69/06 45c-69/07 45c-69/08  45c-69/10  45c-71/00		
45c-65/02 45c-65/04 45c-65/06 45c-65/08 45c-65/08 45c-66/08  45c-67/00  45c-67/00  45c-67/00  45c-67/00  45c-67/00  45c-67/00  45c-67/00  45c-67/02  45c-67/02  45c-67/04  45c-69/04  45c-69/06  45c-69/06  45c-69/06  45c-69/06  45c-69/07  45c-69/08  45c-69/10  45c-71/00  45c-71/00  45c-71/00  45c-71/00  45c-71/00  45c-71/00  5crapers for removing dirt	450-63/04	. Non-rotating dividers
45c-65/04 45c-65/06 45c-65/08 Lifting devices arranged on the inner side of the cutter-bar Guard attachments for the wheels  45c-67/00 Undercarriages specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Mechanisms for adjusting the frame (adjusting devices for the cutter-bar 45c-55/32); Platforms  45c-67/02 45c-67/04 Protection against weather Seats  45c-69/00 Driving mechanisms; Parts thereof 45c-69/02 45c-69/04 Liectric drive Gearings (in general 47h) Clutches (in general 47c) 45c-69/10 Brakes (in general 47c) Lubrication (in general 47e) Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) Devices for connecting the rod to the knife-bar Devices for connecting the rod to the crank-pin of the driving mechanism  Wheels (wheels for agricultural machines in general 45a-55/00) Scrapers for removing dirt	45c-65/00	
45c-65/06 45c-65/08 Lifting devices arranged on the inner side of the cutter-bar Guard attachments for the wheels  45c-67/00 Undercarriages specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Mechanisms for adjusting the frame (adjusting devices for the cutter-bar 45c-55/32); Platforms  Protection against weather Seats  45c-69/00 A5c-69/00 Driving mechanisms; Parts thereof Electric drive Gearings (in general 47h) Clutches (in general 47c) Brakes (in general 47c) Lubrication (in general 47e) Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) CDevices for connecting the rod to the knife-bar Devices for connecting the rod to the crank-pin of the driving mechanism  Wheels (wheels for agricultural machines in general 45a-55/00) Scrapers for removing dirt		
45c-67/00  Undercarriages specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Mechanisms for adjusting the frame (adjusting devices for the cutter-bar 45c-55/32); Platforms  45c-67/02  45c-67/04  Protection against weather  Seats  5 Seats  Driving mechanisms; Parts thereof  Electric drive  for mowers  Gearings (in general 47h)  Clutches (in general 47c)  Brakes (in general 47c)  Lubrication (in general 47e)  Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18)  Connecting-rods for connecting the rod to the knife-bar  Devices for connecting the rod to the crank-pin of the driving mechanism  Wheels (wheels for agricultural machines in general 45a-55/00)  Scrapers for removing dirt		
45c-67/00 Undercarriages specially adapted for harvesting machines; Frames specially adapted for harvesting machines; Mechanisms for adjusting the frame (adjusting devices for the cutter-bar 45c-55/32); Platforms  45c-67/02 45c-67/04 Protection against weather Seats  45c-69/00 Driving mechanisms; Parts thereof Electric drive for mowers Gearings (in general 47h) Clutches (in general 47c) Electric drive For mowers Gearings (in general 47c) Lubrication (in general 47e) Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) Devices for connecting the rod to the knife-bar Devices for connecting the rod to the crank-pin of the driving mechanism  Wheels (wheels for agricultural machines in general 45a-55/00) Scrapers for removing dirt		
specially adapted for harvesting machines; Mechanisms for adjusting the frame (adjusting devices for the cutter-bar 45c-55/32); Platforms  . Protection against weather . Seats  45c-69/00  45c-69/00  Driving mechanisms; Parts thereof . Electric drive . for mowers . Gearings (in general 47h) . Clutches (in general 47c) . Brakes (in general 47c) . Lubrication (in general 47c) . Lubrication (in general 47e) . Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) . Devices for connecting the rod to the knife-bar . Devices for connecting the rod to the crank-pin of the driving mechanism  45c-71/00  Wheels (wheels for agricultural machines in general 45a-55/00) . Scrapers for removing dirt	450-65/08	. Guard attachments for the wheels
the frame (adjusting devices for the cutter-bar 45c-55/32); Platforms  45c-67/02 45c-67/04  Seats  Driving mechanisms; Parts thereof  Electric drive 5c-69/04  5c-69/06  Gearings (in general 47h) 5c-69/08  Clutches (in general 47c) 5c-69/10  Brakes (in general 47c) 5c-69/12  45c-69/14  Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) 5c-69/16  Devices for connecting the rod to the knife-bar 5c-69/18  Wheels (wheels for agricultural machines in general 45a-55/00) Scrapers for removing dirt	45c-67/00	
45c-67/02 . Protection against weather 45c-69/00 Driving mechanisms; Parts thereof 45c-69/02 . Electric drive 45c-69/04 for mowers 45c-69/06 . Gearings (in general 47h) 45c-69/08 . Clutches (in general 47c) 45c-69/10 . Brakes (in general 47c) 45c-69/12 . Lubrication (in general 47e) 45c-69/14 . Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) 45c-69/16 . Devices for connecting the rod to the knife-bar 45c-69/18 . Devices for connecting the rod to the crank-pin of the driving mechanism  45c-71/00 Wheels (wheels for agricultural machines in general 45a-55/00) 45c-71/02 . Scrapers for removing dirt		
45c-69/00 Driving mechanisms; Parts thereof 45c-69/02 Electric drive 45c-69/04 Gearings (in general 47h) 45c-69/08 Gearings (in general 47c) 45c-69/10 Brakes (in general 47c) 45c-69/12 Lubrication (in general 47e) 45c-69/14 Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) 45c-69/18 Devices for connecting the rod to the knife-bar 45c-69/18 Wheels (wheels for agricultural machines in general 45a-55/00) 45c-71/00 Scrapers for removing dirt		
45c-69/00 45c-69/02 45c-69/04 45c-69/04 45c-69/06 45c-69/06 45c-69/08 45c-69/10 45c-69/10 45c-69/12 45c-69/12 45c-69/14 45c-69/16 45c-69/16 45c-69/16 45c-69/18  Wheels (wheels for agricultural machines in general 45a-55/00) 45c-71/02  Driving mechanisms; Parts thereof  Electric drive  . Electric drive . Gearings (in general 47h) . Gearings (in general 47c) . Clutches (in general 47c) . Brakes (in general 47c) . Lubrication (in general 47e) . Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) . Devices for connecting the rod to the knife-bar . Devices for connecting the rod to the crank-pin of the driving mechanism		
45c-69/02 . Electric drive 45c-69/04 for mowers 45c-69/06 . Gearings (in general 47h) 45c-69/08 . Clutches (in general 47c) 45c-69/10 . Brakes (in general 47c) 45c-69/12 . Lubrication (in general 47e) 45c-69/14 . Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) 45c-69/16 . Devices for connecting the rod to the knife-bar 45c-69/18 . Devices for connecting the rod to the crank-pin of the driving mechanism  45c-71/00 Wheels (wheels for agricultural machines in general 45a-55/00) 45c-71/02 . Scrapers for removing dirt	45c-67/04	. Seats
45c-69/02 . Electric drive 45c-69/04 for mowers 45c-69/06 . Gearings (in general 47h) 45c-69/08 . Clutches (in general 47c) 45c-69/10 . Brakes (in general 47c) 45c-69/12 . Lubrication (in general 47e) 45c-69/14 . Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) 45c-69/16 . Devices for connecting the rod to the knife-bar 45c-69/18 . Devices for connecting the rod to the crank-pin of the driving mechanism  45c-71/00 Wheels (wheels for agricultural machines in general 45a-55/00) 45c-71/02 . Scrapers for removing dirt	45c-69/00	Driving mechanisms; Parts thereof
45c-69/06 45c-69/08 45c-69/10 45c-69/10 45c-69/12 45c-69/12 45c-69/14 45c-69/16 45c-69/16 45c-69/18 45c-69/18  45c-71/00 45c-71/02  Gearings (in general 47h) Clutches (in general 47c) Lubrication (in general 47e) Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18) Devices for connecting the rod to the knife-bar Devices for connecting the rod to the crank-pin of the driving mechanism	45c-69/02	
45c-69/08 45c-69/10 45c-69/10 45c-69/12 45c-69/14 45c-69/14 45c-69/16 45c-69/16 45c-69/18  45c-69/18  45c-69/18  45c-71/00  45c-71/02  Clutches (in general 47c)  Brakes (in general 47c)  Lubrication (in general 47e)  Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18)  Devices for connecting the rod to the knife-bar  Devices for connecting the rod to the crank-pin of the driving mechanism  Wheels (wheels for agricultural machines in general 45a-55/00)  Scrapers for removing dirt	45c-69/04	for mowers
<ul> <li>45c-69/10</li> <li>45c-69/12</li> <li>Lubrication (in general 47c)</li> <li>Lubrication (in general 47e)</li> <li>Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18)</li> <li>Devices for connecting the rod to the knife-bar</li> <li>Devices for connecting the rod to the crank-pin of the driving mechanism</li> <li>45c-71/00</li> <li>Wheels (wheels for agricultural machines in general 45a-55/00)</li> <li>Scrapers for removing dirt</li> </ul>	45c-69/06	. Gearings (in general 47h)
<ul> <li>45c-69/12</li> <li>45c-69/14</li> <li>45c-69/16</li> <li>45c-69/18</li> <li>Devices for connecting the rod to the knife-bar</li> <li>Devices for connecting the rod to the crank-pin of the driving mechanism</li> <li>45c-71/00</li> <li>45c-71/02</li> <li>Wheels (wheels for agricultural machines in general 45a-55/00)</li> <li>Scrapers for removing dirt</li> </ul>		
<ul> <li>45c-69/14         <ul> <li>Connecting-rods for knife-driving mechanisms (connecting rods in general 47b-18)</li> <li>Devices for connecting the rod to the knife-bar</li> <li>Devices for connecting the rod to the crank-pin of the driving mechanism</li> </ul> </li> <li>45c-71/00         <ul> <li>Wheels (wheels for agricultural machines in general 45a-55/00)</li> <li>Scrapers for removing dirt</li> </ul> </li> </ul>		
<ul> <li>45c-69/16         <ul> <li>Devices for connecting the rod to the knife-bar</li> <li>Devices for connecting the rod to the crank-pin of the driving mechanism</li> </ul> </li> <li>45c-71/00         <ul> <li>Wheels (wheels for agricultural machines in general 45a-55/00)</li> <li>Scrapers for removing dirt</li> </ul> </li> </ul>		
<ul> <li>45c-69/18 Devices for connecting the rod to the crank-pin of the driving mechanism</li> <li>45c-71/00 Wheels (wheels for agricultural machines in general 45a-55/00)</li> <li>45c-71/02 Scrapers for removing dirt</li> </ul>		
45c-71/00 Wheels (wheels for agricultural machines in general 45a-55/00) 45c-71/02 Scrapers for removing dirt		
45c-71/02 . Scrapers for removing dirt	450-69/18	Devices for connecting the roa to the crank-pin of the driving mechanism
,		
45c-73/00 Other component parts	45c-71/02	. Scrapers for removing dirt
	45c-73/00	Other component parts

<b>Accessories</b>	for harvesters for grass or cereals
45c-75/00 45c-75/02 45c-75/04 45c-75/06 45c-75/08 45c-75/10 45c-75/12 45c-75/14 45c-75/16 45c-75/18 45c-75/20 45c-75/22 45c-75/24 45c-75/28 45c-75/28	Accessories Implements for collecting grain crop Sheaf carriers Sheaf shockers or stookers (hay stackers 45c-85/00) Sharpening apparatus fixed to the harvester (sharpening machines for mower cutters 67a-8) Devices for reconditioning the knife-bar, e.g. removing the knife from its backing Instruments for removing the knife-bar from the cutter Arrangements for resetting the harvester Implements for laying-out bands for sheaves Safety devices for parts of the machines Devices for protecting men or animals Carriers for the transport of harvesters or haymakers Special devices for harvesters drawn by animals (draft poles in general 63a-19) Front trucks; Axle-pivot steering of front trucks Control mechanisms for harvesters when moving on slopes; Devices preventing lateral pull Arrangements for trailing two or more mowers
<u>Haymakers</u>	
<b>45c-77/00</b> 45c-77/02 45c-77/04 45c-77/06	Hay-rakes . Hand-operated wheeled rakes . Hay sweeps . Side delivery rakes
<b>45c-79/00</b> 45c-79/02 45c-79/04 45c-79/06	Turners; Tedders . Rotating turners . Control mechanisms therefor . with forks
45c-81/00	Universal haymaking mechanisms for raking, turning, or tedding, with propelled tools
45c-83/00	Haymakers with tools rolling on the soil
45c-84/00	Haymakers not provided for in a single one of group 45c-77/00 – 45c-83/00
45c-85/00	<b>Arrangements for making or setting stacks</b> (sheaf stackers, shockers 45c-75/06)
45c-87/00 45c-87/02 45c-87/04 45c-87/06 45c-87/10 45c-87/12	Loaders for hay or like field crops (collectors for picking up crops from the ground, e.g. apples, nuts, potatoes, beets 45c-51/00) . with conveyor belts . with rakes feeding the crop to the conveyor . with oscillating or reciprocating rake-bars . with sweep rakes . with blowers (suction conveyors in general 81e-65) . Loaders for sheaves, stacks, or bales
45c-89/00	Pick-ups for loaders, chaff-cutters, balers, field-threshers, etc. (construction of chaff-cutters 45e-29/00 – 45e-29/20, of balers 45e-15/00 – 45e-15/18, of threshers 45e-7/00 – 45e-7/58)
45c-90/00	Vehicles for carrying harvested crops, with means for picking-up, with or without means for packaging or unloading (vehicles for transporting loads and modified to facilitate loading 63a-35, 63c-39; with scraper-bucket pick-up means 84d-3/64)

<b>45c-91/00</b> 45c-91/02 45c-91/04	Methods for harvesting agricultural products (essentially requiring the use of particular machines, see the relevant groups for the machines) . products growing in the soil . products growing above the soil (fruit, hops 45f-19/00)
45d	Animal engines, treadmills
45d-1 45d-2 45d-3 45d-4 45d-5	Animal engines in general Draught assemblies, yielding harness, horse protectors (63a-21; 63a-23; 63a-42) Safety devices for animal engines Gearings and clutches for animal engines Treadmills (46e-5; 46e-6)
45d	(IPC: A01H) New plants
<u>Processes</u>	
<b>45d-1/00</b> 45d-1/02 45d-1/04 45d-1/06 45d-1/08	Processes for modifying genotypes  . Methods or apparatus for hybridisation; Artificial pollination  . Processes of selection  . Processes for producing mutations, e.g. treatments with chemicals or with radiation  . Methods or apparatus for producing changes in chromosome number
45d-3/00	Processes for modifying phenotypes (influencing the growth of plants
45d-3/02 45d-3/04	without producing new plants 45I-5/00) . by controlling duration, wavelength, intensity, or periodicity of illumination . by treatment with chemicals
<u>Products</u>	
<b>45d-5/00</b> 45d-5/02 45d-5/04 45d-5/06 45d-5/08 45d-5/10 45d-5/12	Flowering plants, i.e. angiosperms . Flowers . Stems . Roots . Fruits . Seeds . Leaves
45d-7/00	Gymnosperms, e.g. conifers
45d-9/00	Pteridophytes, e.g. ferns, club-mosses, horse-tails
45d-11/00	Bryophytes, e.g. mosses, liverworts
45d-13/00	Algae
45d-15/00	Fungi; Lichens
45d-17/00	Symbiotic or parasitic combinations including one or more new plants, e.g. mycorrhiza (lichens 45d-15/00)
45e	Processing of harvested produce
45e-1/01 45e-1/02 45e-1/03 45e-1/04 45e-1/05	Hand implements for binding sheaves Fastening or tying devices Sheaf presses Devices for bundling sheaves Hand-operated implements for cutting-up hay or straw and for threshing
45e-2/01 45e-2/02 45e-2/03 45e-2/04	Threshing machines for cereals (45e-28) with one-piece straw shakers (45e-7/01) with multi-part straw shakers (45e-7/02) with several straw shakers in series arrangement with roller, rake or drum shakers (45e-7/03; 45e-7/04)

45e-2/05	without shakers
	Details of threshing machines, except cylinders and straw shakers
45e-3/01	Driving mechanisms, brakes and bearings
45e-3/02	Apparatus for removing awns from the grain (45e-21/01)
45e-3/03	Grain cleaners (45e-12 – 45e-18/50)
45e-3/04	Mechanical grain conveyors (81e-29)
45e-3/05	Air conduits or blowers for grain (81e-71 – 81e-75; 45e-11/02)
45e-3/06	Crushers and cutters
45e-3/07	Headers
45e-3/08	Sack-filling devices; Counting or weighing devices (42f-19; 42p-5/01; 81a-3/01; 81a-3/10; 81a-4)
45e-3/09	Arrangements for returning unthreshed grain to the threshing device
45e-3/10	Devices for securing threshing machines to the ground, e.g. for compensating for unevenness of the ground
45e-3/11	Details except 45e-3/01 – 45e-3/10
45e-4/01	Axial threshing machines
45e-4/02	Threshing machines with flails
45e-4/03	Threshing machines of special construction (combines 45c-28)
45e-5/01	Sheaf binders for threshing machines
45e-5/02	Balling presses for threshing machines (45e-23/01 – 45e-28)
	Threshing devices for threshing machines
45e-6/01	Threshing cylinders with ribs
45e-6/02	Threshing cylinders with teeth
45e-6/03	One-part threshing concaves
45e-6/04	Multi-part threshing concaves
	Ctrow abole to threading machines
	Straw shakers for threshing machines
45e-7/01	One-piece shakers (45e-2/01)
45e-7/02	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02)
45e-7/02 45e-7/03	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04)
45e-7/02 45e-7/03 45e-7/04	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04)
45e-7/02 45e-7/03	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01)
45e-7/02 45e-7/03 45e-7/04 45e-7/05	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines
45e-7/02 45e-7/03 45e-7/04 45e-7/05	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/04	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/04 45e-10/05	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/03 45e-10/04 45e-10/05	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines Mechanical conveyors
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/04 45e-10/05	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines Mechanical conveyors Pneumatic conveyors
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/05 45e-11/01 45e-11/02	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines Mechanical conveyors Pneumatic conveyors Cleaning and sorting of grain (50a; 50d; 1a; 1b)
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/05 45e-11/01 45e-11/02 45e-11/02	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines Mechanical conveyors Pneumatic conveyors Cleaning and sorting of grain (50a; 50d; 1a; 1b) Cleaning and sorting machines with flat sieves and blowers (1a-28/01 – 1a-28/10; 50d-7/50)
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/05 45e-11/01 45e-11/02 45e-12 45e-13	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines Mechanical conveyors Pneumatic conveyors Cleaning and sorting of grain (50a; 50d; 1a; 1b) Cleaning and sorting machines with flat sieves and blowers (1a-28/01 – 1a-28/10; 50d-7/50) Cleaning and sorting machines with flat sieves without blowers (50d-3/01 – 50d-5/30; 1a-22/01 – 1a-23)
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/05 45e-11/01 45e-11/02 45e-12 45e-13 45e-14/01	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines Mechanical conveyors Pneumatic conveyors Cleaning and sorting of grain (50a; 50d; 1a; 1b) Cleaning and sorting machines with flat sieves and blowers (1a-28/01 – 1a-28/10; 50d-7/50) Cleaning and sorting machines with flat sieves without blowers (50d-3/01 – 50d-5/30; 1a-22/01 – 1a-23) Flat sieves (1a-22/01; 50d-3/01 – 50d-3/30)
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/05 45e-11/01 45e-11/02 45e-12 45e-13 45e-14/01 45e-14/50	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines Mechanical conveyors Pneumatic conveyors Cleaning and sorting of grain (50a; 50d; 1a; 1b) Cleaning and sorting machines with flat sieves and blowers (1a-28/01 – 1a-28/10; 50d-7/50) Cleaning and sorting machines with flat sieves without blowers (50d-3/01 – 50d-5/30; 1a-22/01 – 1a-23) Flat sieves (1a-22/01; 50d-3/01 – 50d-3/30) Devices for cleaning sieves (50d-6/20; 50d-6/30)
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/05 45e-11/01 45e-11/02 45e-12 45e-13 45e-14/01 45e-14/50 45e-15/01	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines Mechanical conveyors Pneumatic conveyors Cleaning and sorting of grain (50a; 50d; 1a; 1b) Cleaning and sorting machines with flat sieves and blowers (1a-28/01 – 1a-28/10; 50d-7/50) Cleaning and sorting machines with flat sieves without blowers (50d-3/01 – 50d-5/30; 1a-22/01 – 1a-23) Flat sieves (1a-22/01; 50d-3/01 – 50d-3/30) Devices for cleaning sieves (50d-6/20; 50d-6/30) Cleaning and sorting machines with rotating sieve cylinder (1a-27; 50d-1)
45e-7/02 45e-7/03 45e-7/04 45e-7/05 45e-10/01 45e-10/02 45e-10/03 45e-10/05 45e-11/01 45e-11/02 45e-12 45e-13 45e-14/01 45e-14/50	One-piece shakers (45e-2/01) Multi-part shakers (45e-2/02) Roller shakers (45e-2/04) Rake or drum shakers etc. (45e-2/04) Sieves (45e-14/01) Safety devices for threshing machines Feeders without band-cutters Feeders with band-cutters Details of feeders Safety devices for feeders Dust collecting and removing installations for threshing machines Straw conveyors for threshing machines Mechanical conveyors Pneumatic conveyors  Cleaning and sorting of grain (50a; 50d; 1a; 1b) Cleaning and sorting machines with flat sieves and blowers (1a-28/01 – 1a-28/10; 50d-7/50) Cleaning and sorting machines with flat sieves without blowers (50d-3/01 – 50d-5/30; 1a-22/01 – 1a-23) Flat sieves (1a-22/01; 50d-3/01 – 50d-3/30) Devices for cleaning sieves (50d-6/20; 50d-6/30)

45e-17	Cleaning and sorting machines med endless conveyors
45e-18/01	Cleaning and sorting machines with centrifugal action
45e-18/10	Cleaning and sorting by air stream
45e-18/20	Cleaning and sorting by liquids
45e-18/30	Magnetic and electric cleaning and sorting (1b)
45e-18/40	Screw cleaners
45e-18/50	Cleaning and sorting machines of special construction
45e-19/01	Devices for separating stones from the grain
45e-19/10	Feeders for cleaning and sorting machines (50b-5/01; 50b-5/10)
45e-19/20	Samplers (42I-17; 50b-5/40)
	Cleaning and sorting of fruit, berries and root crops
45e-20/01	Cleaning and sorting machines with flat sieves
45e-20/02	Cleaning and sorting machines with sieve cylinders
45e-20/03	Cleaning and sorting machines with rollers
45e-20/04	Cleaning and sorting machines with endless conveyors, wires etc.
45e-20/05	Cleaning and sorting using a liquid stream (1a-5 – 1a-7)
45e-20/06	Sorting according to weight
45e-20/07	Cleaning by means of brushes
45e-20/08	Separation of stones
45e-20/09	Cleaning and sorting machines of special construction or for products other than fruit
45e-21/01	Removing awns or decorticating by flail cylinders and sieve cylinders (45e-3/02)
45e-21/02	Removing awns or decorticating by rollers
45e-21/03	Details of awns removers or decorticators
45e-21/10	Devices for husking and subdividing maize cobs
45e-21/11	Details of maize huskers
45e-21/12	Devices for cleaning of maize
45e-21/20	Threshing of oil crops, e.g. palm fruits, flax
45e-21/21	Threshing of clover
45e-21/22	Threshing and stripping of peas and beans
45e-21/23	Threshing and hulling of rice
45e-21/30	Treatment of coffee
45e-21/31	Sorting coffee according to colour (42h-34/06)
45e-21/40	Treatment of tea
45e-21/41	Tea rolling machines
45e-21/50	Harvesting and treating hops (6a-11 – 6a-13; 6b-14)
45e-21/60	Disintegrating and marking of grain
45e-21/70	Heating and destroying the germination capacity of grain
45e-21/80	Winning of pith
45e-22/01	Washing machines for agricultural products (89a-1; 89a-2)
45e-22/02	Devices for mixing, washing and drying agricultural products
45e-22/03	Washing and blanching of fruit
	Baling presses (45e-5; 58b-14)
45e-23/01	Presses with press-boxes
45e-23/02	Plunger presses operated by crank mechanisms
45e-23/03	Plunger presses operated by winches or pulleys
45e-23/04	Plunger presses operated by worm gears or rack and pinion mechanisms
45e-23/05	Double-sided presses
45e-23/06	Details of presses
45e-23/07	Presses of special construction
45e-24	Feeding devices for the material to be pressed

4-58-2-25 Feeding devices for the fies 4-58-26 Tying devices 4-58-27 Division blocks Presses with endless conveyors, rollers, screw conveyors etc.  Storing agricultural products 4-58-29/01 Clamps, pits, etc. Covering of clamps 4-58-29/02 Covering of clamps 4-58-29/04 Silos or presses for fodder, presses for silage (371-2/02; 53g-5/01) 4-58-29/04 Silos or presses for fodder, presses for silage (371-2/02; 53g-5/01) 4-58-29/06 Barns for drying (82a) 4-58-29/07 Ventilation of stacks etc. (82a) 4-58-29/07 Ventilation of stacks etc. (82a) 4-58-29/09 Setting shocks or stooks 4-58-29/09 Setting shocks or stooks 5-29/10 using buckets travelling over an inclined surface 4-58-29/11 using pushers travelling over an inclined surface 4-58-29/12 using pushers travelling over an inclined surface 4-58-29/13 using growing machines 4-58-29/14 using dilting buckets 4-58-29/15 using fans 4-58-29/15 using fans 4-58-30/03 Using surface 4-58-30/03 Slings 4-58-30/03 Slings 4-58-30/04 Devices for lifting and loading 4-58-30/07 Tilting of wagons 5-6-30/07 Securing loads on wagons 5-6-30/07 Securing loads on wagons 5-6-32/04 Machines for cutting-up straw for bedding-down animals etc. 4-58-30/02 With knives on rotating discs 4-58-30/03 Prames, bearings and other details 4-58-30/03 Prames, bearings and other details 4-58-30/04 Devices for discharging devices, blowers 4-58-30/04 Pushing or pressing devices 4-58-30/03 Prames, bearings and other details 4-58-30/04 With knives on rotary barrels 4-58-30/04 With knives on rotary barrels 4-58-30/05 With knives on rotary barrels 4-58-30/07 Pushing or pressing devices 4-58-30/07 With reciprocating knives 4-58-30/07 With knives on rotary barrels or like surfaces 4-58-30/07 With knives on rotary barrels or like surfaces	45- 05	
45e-27 Division blocks Presses with endless conveyors, rollers, screw conveyors etc.  Storing agricultural products  Clamps, pits, etc. Covering of clamps 45e-29/02 Covering of clamps 45e-29/03 Containers etc. (34i-22; 34i-3) 45e-29/05 Covering and rain protection for stacks, ricks, etc. 45e-29/05 Barns for drying (82a) 45e-29/07 Ventilation of stacks etc. (82a) 45e-29/08 Devices for setting stacks (7b-5/01; 37d-36; 82a) 45e-29/09 Setting shocks or stooks Stacking (45c-37/20) 45e-29/10 using buckets travelling over an inclined surface 45e-29/11 using pushers travelling over an inclined surface 45e-29/12 using ghedies conveyors (81e-113) 45e-29/13 using throwing machines 45e-29/14 using throwing machines 45e-29/15 using other means 45e-29/16 using other means 45e-29/17 using other means 45e-30/02 Grapples 45e-30/03 Slings 45e-30/03 Slings 45e-30/03 Slings 45e-30/05 Titting of wagons 45e-30/05 Titting of wagons 45e-30/06 Devices for lifting and loading 45e-30/06 Devices for lifting and loading 45e-30/07 Securing loads on wagons 45e-30/09 With knives on rotating discs 45e-32/00 With knives on rotating discs 45e-32/00 Machines for cutting-up straw for bedding-down animals etc. 45e-33/01 Pushing or pressing devices 45e-33/02 Pushing or pressing devices 45e-33/02 Pushing or pressing devices 45e-33/01 Safety devices for the machines, removing foreign matter, braking devices 45e-33/01 With knives on rotary discs 45e-34/01 With knives on rotary discs 45e-34/01 With knives on rotary discs 45e-34/01 With knives on rotary discs 45e-33/01 With knives on rotary discs 45e-33/01 With knives on rotary discs 45e-33/01 With knives on rotary discs 45e-34/01 With knives on rotary discs 45e-33/01	45e-25	Feeding devices for the ties
45e-28 Presses with endless conveyors, rollers, screw conveyors etc.  Storing agricultural products  Clamps, pits, etc. 45e-29/02 Covering of clamps Containers etc. (34i-22; 34i-3) 45e-29/04 Silos or presses for fodder, presses for silage (37f-2/02; 53g-5/01) 45e-29/05 Coverings and rain protection for stacks, ricks, etc. 45e-29/06 Barns for drying (82a) 45e-29/08 Devices for setting stacks (7b-5/01; 37d-36; 82a) 45e-29/09 Devices for setting stacks (7b-5/01; 37d-36; 82a) 45e-29/10 Using buckets travelling over an inclined surface 45e-29/11 Using pushers travelling over an inclined surface 45e-29/12 Using pushers travelling over an inclined surface 45e-29/13 Using pushers travelling over an inclined surface 45e-29/14 Using pushers travelling over an inclined surface 45e-29/15 Using pushers travelling over an inclined surface 45e-29/16 Using pushers travelling over an inclined surface 45e-29/18 Using pushers travelling over an inclined surface 45e-29/19 Using pushers travelling over an inclined surface 45e-29/10 Using pushers travelling over an inclined surface 45e-29/11 Using pushers travelling over an inclined surface 45e-29/14 Using pushers travelling over an inclined surface 45e-29/15 Using pushers travelling over an inclined surface 45e-29/16 Using pushers travelling over an inclined surface 45e-29/16 Using pushers travelling over an inclined surface 45e-30/10 Cranes 45e-30/10 Using using therwins 45e-30/10 Travelling pushers 45e-30/10 Travelling pushers 45e-30/10 Travelling united pushers 45e-30/10 With knives on rotatry dares 45e-32/10 With knives on rotatry dares 45e-33/10 Viting and control devices 45e-33/10 Viting and control devices 45e-34/10 Safety devices for the machines, removing foreign matter, braking devices 45e-34/10 With knives on rotary discs 45e-34/10 With knives on rotary discs 45e-35 With knives on rotary discs 45e-36/10 With knives on rotary discs 45e-36/10 With knives on rotary discs 45e-37/10 With knives on rotary discs 45e-38/10 With knives on rotary discs 45e-38/10 With knives on rot		, ,
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Fodder cutters  45e-32/01 with knives on rotating discs 45e-32/02 with knives on rotary barrels 45e-32/03 with reciprocating knives 45e-32/04 Machines for cutting-up straw for bedding-down animals etc. 45e-32/05 Feeding or discharging devices, blowers 45e-33/01 Pushing or pressing devices 45e-33/02 Driving and control devices 45e-33/03 Frames, bearings and other details 45e-34/01 Safety devices for the machines, removing foreign matter, braking devices 45e-34/02 Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b) 45e-35 with knives on rotary discs 45e-36/01 with knives on rotary barrels or like surfaces 45e-36/10 with knives on rollers 45e-37/10 Fodder mashers (34b-3/02) 45e-38 Machines for cutting vegetables into cubes	45e-30/06	Distributing crops in barns
45e-32/01 with knives on rotating discs 45e-32/02 with knives on rotary barrels 45e-32/03 with reciprocating knives 45e-32/04 Machines for cutting-up straw for bedding-down animals etc. 45e-32/05 Feeding or discharging devices, blowers 45e-33/01 Pushing or pressing devices 45e-33/02 Driving and control devices 45e-33/03 Frames, bearings and other details 45e-34/01 Safety devices for the machines, removing foreign matter, braking devices 45e-34/02 Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b) 45e-35 with knives on rotary discs 45e-36/01 with knives on rotary barrels or like surfaces 45e-36/10 with knives on rollers 45e-37/01 with oscillating or reciprocating knives 45e-37/10 Fodder mashers (34b-3/02) 45e-38 Machines for cutting vegetables into cubes	45e-30/07	
45e-32/01 with knives on rotating discs 45e-32/02 with knives on rotary barrels 45e-32/03 with reciprocating knives 45e-32/04 Machines for cutting-up straw for bedding-down animals etc. 45e-32/05 Feeding or discharging devices, blowers 45e-33/01 Pushing or pressing devices 45e-33/02 Driving and control devices 45e-33/03 Frames, bearings and other details 45e-34/01 Safety devices for the machines, removing foreign matter, braking devices 45e-34/02 Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b) 45e-35 with knives on rotary discs 45e-36/01 with knives on rotary barrels or like surfaces 45e-36/10 with knives on rollers 45e-37/01 with oscillating or reciprocating knives 45e-37/10 Fodder mashers (34b-3/02) 45e-38 Machines for cutting vegetables into cubes		Fodder cutters
45e-32/02 with knives on rotary barrels 45e-32/03 with reciprocating knives 45e-32/04 Machines for cutting-up straw for bedding-down animals etc. 45e-32/05 Feeding or discharging devices, blowers 45e-33/01 Pushing or pressing devices 45e-33/02 Driving and control devices 45e-33/03 Frames, bearings and other details 45e-34/01 Safety devices for the machines, removing foreign matter, braking devices 45e-34/02 Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b) 45e-35 with knives on rotary discs 45e-36/01 with knives on rotary barrels or like surfaces 45e-36/10 with knives on rotary barrels or like surfaces 45e-37/01 with oscillating or reciprocating knives 45e-37/10 Fodder mashers (34b-3/02) 45e-38 Machines for cutting vegetables into cubes	45e-32/01	
45e-32/04 Machines for cutting-up straw for bedding-down animals etc. 45e-32/05 Feeding or discharging devices, blowers 45e-33/01 Pushing or pressing devices 45e-33/02 Driving and control devices 45e-33/03 Frames, bearings and other details 45e-34/01 Safety devices for the machines, removing foreign matter, braking devices 45e-34/02 Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b) 45e-35 with knives on rotary discs 45e-36/01 with knives on rotary barrels or like surfaces 45e-36/10 with knives on rollers 45e-37/01 with oscillating or reciprocating knives 45e-37/10 Fodder mashers (34b-3/02) 45e-38 Machines for cutting vegetables into cubes		~
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45e-32/05 Feeding or discharging devices, blowers 45e-33/01 Pushing or pressing devices 45e-33/02 Driving and control devices 45e-33/03 Frames, bearings and other details 45e-34/01 Safety devices for the machines, removing foreign matter, braking devices 45e-34/02 Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b) 45e-35 with knives on rotary discs 45e-36/01 with knives on rotary barrels or like surfaces 45e-36/10 with knives on rollers 45e-37/01 with oscillating or reciprocating knives 45e-37/10 Fodder mashers (34b-3/02) 45e-38 Machines for cutting vegetables into cubes		, g
45e-33/01 Pushing or pressing devices 45e-33/02 Driving and control devices 45e-33/03 Frames, bearings and other details 45e-34/01 Safety devices for the machines, removing foreign matter, braking devices Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b)  45e-35 with knives on rotary discs 45e-36/01 with knives on rotary barrels or like surfaces 45e-36/10 with knives on rollers 45e-37/01 with oscillating or reciprocating knives 45e-37/10 Fodder mashers (34b-3/02) 45e-38 Machines for cutting vegetables into cubes		
45e-33/02 Driving and control devices 45e-33/03 Frames, bearings and other details 45e-34/01 Safety devices for the machines, removing foreign matter, braking devices 45e-34/02 Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b)  45e-35 with knives on rotary discs 45e-36/01 with knives on rotary barrels or like surfaces 45e-36/10 with knives on rollers 45e-37/01 with oscillating or reciprocating knives 45e-37/10 Fodder mashers (34b-3/02) 45e-38 Machines for cutting vegetables into cubes		
Frames, bearings and other details  Safety devices for the machines, removing foreign matter, braking devices  Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b)  with knives on rotary discs  with knives on rotary barrels or like surfaces  with knives on rollers  with knives on rollers  with oscillating or reciprocating knives  Fodder mashers (34b-3/02)  Machines for cutting vegetables into cubes		
45e-34/01 Safety devices for the machines, removing foreign matter, braking devices  Mixing devices for chaff or like fodder  Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b)  45e-35 with knives on rotary discs  45e-36/01 with knives on rotary barrels or like surfaces  45e-36/10 with knives on rollers  45e-37/01 with oscillating or reciprocating knives  Fodder mashers (34b-3/02)  45e-38 Machines for cutting vegetables into cubes		~
Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b)  45e-35 with knives on rotary discs  45e-36/01 with knives on rotary barrels or like surfaces  45e-36/10 with knives on rollers  45e-37/01 with oscillating or reciprocating knives  45e-37/10 Fodder mashers (34b-3/02)  45e-38 Machines for cutting vegetables into cubes		·
Machines for cutting, splitting, shredding or straining vegetables in bulk (domestic implements 34b)  45e-35 with knives on rotary discs  45e-36/01 with knives on rotary barrels or like surfaces  45e-36/10 with knives on rollers  45e-37/01 with oscillating or reciprocating knives  45e-37/10 Fodder mashers (34b-3/02)  45e-38 Machines for cutting vegetables into cubes		
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<ul> <li>45e-37/01 with oscillating or reciprocating knives</li> <li>45e-37/10 Fodder mashers (34b-3/02)</li> <li>45e-38 Machines for cutting vegetables into cubes</li> </ul>		•
45e-37/10 Fodder mashers (34b-3/02) 45e-38 Machines for cutting vegetables into cubes		
45e-38 Machines for cutting vegetables into cubes		
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	Crushing machines
45e-39/05	with rollers
45e-39/06	with feed-worms (58b-9)
45e-39/07	with roller and counter-surface
45e-39/08	Straining machines (34I-18/02)
45e-39/10	Machines for cutting, splitting, shredding combined with arrangements for extracting juice (cooking vessels for extracting juice 34l-2/01, domestic implements for extracting juice 34b-9, 34b-10)
45e-39/20	Apparatus for breaking oil cakes (crushing machines in general 50c)
	Machines for stoning fruit in bulk (for stoning single fruits 34b-11)
45e-40/01	with feeder-drums
45e-40/02	with endless feeder-belts
45e-40/03	with feeder-tables
45e-40/04	for both splitting and stoning
45e-41/01	for stoning fruit with small pips, e.g. raisins
45e-41/02	for coring fruit
	Machines for hulling, husking, or cracking nuts
45e-42/01	with reciprocating tools for pressing, crushing, beating or splitting
45e-42/02	with rotary tools acting by centrifugal effect
45e-42/03	with rotary beating or cutting tools
45e-42/04	Machines for removing fleshy or fibrous hulls of nuts
45e-42/05	Machines for skinning nut kernels
45e-43	Machines for removing the stones of fruits with soft skin and soft stones
400 40	-
45e-44/01	Machines for peeling vegetables or fruit in bulk (34b-7) with peeling knives
45e-44/02	with grating tools
45e-44/03	with grating tools with grating surfaces
45e-44/04	Driving mechanisms, other details
45e-44/10	Machines for peeling cooked potatoes
45e-44/20	Machines for peeling fruit and removing seed-containing sections
45e-45/01	Machines for peeling asparagus (34b-7/07)
45e-45/02	Machines for stringing or cutting beans
400 40/02	
45- 40/04	Machines for other treatment of vegetables or fruit in bulk
45e-46/01	Machines for stemming, piercing or stripping fruit, for removing sprouts of potatoes (34b-12)
45e-46/02	Machines for drying, roasting, washing, or blanching of nuts or other fruits
45e-46/03	Devices for other treatment of fruit, e.g. marking, maturing, polishing (45f-6/05)
45e-47	Devices for topping fruit or vegetables (hand implements 45c-5/03)
45e	(IPC: A01F) Processing of harvested produce; Hay and straw
	presses; Devices for storing agricultural or horticultural produce
45e-1/00	Forming or tying straw into bundles or trusses
45e-1/02	. Hand-operated tools
45e-1/04 45e-1/06	. Fastening or tying devices . Ties for straw bundles
45e-3/00	Hand-operated implements for cutting-up hay or straw (mechanically-driven straw cutters 45e-29/00, 45e-31/00)
Threshing	
	Hand-operated implements for threehing
45e-5/00	Hand-operated implements for threshing

45e-7/00	Threshing machines (with flails 45e-9/00); Threshing devices for combines
45e-7/02	. with rotating tools
45e-7/04	. with axles transverse to the feeding direction
45e-7/06	. with axles in line with the feeding direction
45e-7/08	. Parts or details of threshing machines
45e-7/10	Feeders
45e-7/12	without band-cutters
45e-7/14	with band-cutters
45e-7/16	Safety devices
45e-7/18 45e-7/20	Threshing devices Threshing cylinders with ribs
45e-7/22	Threshing cylinders with his Threshing cylinders with teeth
45e-7/24	One-part threshing concaves
45e-7/26	Multi-part threshing concaves
45e-7/28	Devices for adjusting the concaves
45e-7/30	Straw shakers
45e-7/32	with shaker screens or sieves
45e-7/34	Sieve elements; Linings for shakers
45e-7/36	Sieve elements for handling short straw
45e-7/38	with juxtaposed and independently-moved shaker bars or the like
45e-7/40	Straw crushing or cutting; Chaff-cutters
45e-7/42	Snapping-apparatus for removing awns from the grain
45e-7/44	Grain cleaners; Separators
45e-7/46 45e-7/48	Mechanical grain conveyors (conveyors in general 81e) Air conduits or blowers for grain
45e-7/50	Sack-filling devices; Counting or weighing devices (construction of weighing)
430 1730	apparatus 42f; counting mechanisms 42p)
45e-7/52	Arrangements for returning unthreshed grain to the threshing device
45e-7/54	Dust collecting and removing installations
45e-7/56	Driving mechanisms for the threshing parts
406-1/00	g
45e-7/56 45e-7/58	Steering devices; Brakes; Bearings
45e-7/58 <b>45e-9/00</b>	Steering devices; Brakes; Bearings  Threshing machines with flails
45e-7/58 <b>45e-9/00</b> <b>45e-11/00</b>	Steering devices; Brakes; Bearings  Threshing machines with flails  Threshing machines adapted for special crops
45e-7/58 45e-9/00 45e-11/00 45e-11/02	Steering devices; Brakes; Bearings  Threshing machines with flails  Threshing machines adapted for special crops . for flax
45e-7/58 <b>45e-9/00</b> <b>45e-11/00</b> 45e-11/02 45e-11/04	Threshing machines with flails Threshing machines adapted for special crops  for flax for clover
45e-7/58 <b>45e-9/00</b> <b>45e-11/00</b> 45e-11/02 45e-11/04 45e-11/06	Threshing machines with flails Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs
45e-7/58 <b>45e-9/00</b> <b>45e-11/00</b> 45e-11/02 45e-11/04	Threshing machines with flails Threshing machines adapted for special crops  for flax for clover
45e-7/58 <b>45e-9/00</b> <b>45e-11/00</b> 45e-11/02 45e-11/04 45e-11/06	Threshing machines with flails Threshing machines adapted for special crops  for flax for clover for maize, e.g. removing kernels from cobs
45e-7/58 45e-9/00 45e-11/00 45e-11/04 45e-11/06 45e-11/08	Threshing machines with flails Threshing machines adapted for special crops for flax for clover for maize, e.g. removing kernels from cobs for palm fruit, e.g. releasing the fruit from the stalk
45e-7/58 45e-9/00 45e-11/00 45e-11/02 45e-11/04 45e-11/06 45e-11/08 45e-12/10 45e-12/10	Threshing machines with flails Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters
45e-7/58 45e-9/00 45e-11/00 45e-11/04 45e-11/06 45e-11/08 45e-12/10 45e-12/10 45e-12/12 45e-12/14	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters
45e-7/58  45e-9/00  45e-11/00  45e-11/04  45e-11/06  45e-11/08  45e-12/10  45e-12/10  45e-12/12  45e-12/16	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices
45e-7/58  45e-9/00  45e-11/00  45e-11/04  45e-11/06  45e-11/08  45e-12/10  45e-12/10  45e-12/12  45e-12/14  45e-12/16  45e-12/18	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices
45e-7/58  45e-9/00  45e-11/00  45e-11/04  45e-11/06  45e-11/08  45e-12/10  45e-12/10  45e-12/12  45e-12/16  45e-12/18  45e-12/20	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs
45e-7/58  45e-9/00  45e-11/00  45e-11/02  45e-11/06  45e-11/08  45e-12/10  45e-12/10  45e-12/12  45e-12/14  45e-12/18  45e-12/20  45e-12/22	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth
45e-7/58  45e-9/00  45e-11/00  45e-11/04  45e-11/06  45e-11/08  45e-12/10  45e-12/10  45e-12/12  45e-12/14  45e-12/16  45e-12/18  45e-12/20  45e-12/22  45e-12/24	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth . One-part threshing concaves
45e-7/58  45e-9/00  45e-11/00  45e-11/02  45e-11/06  45e-11/08  45e-12/10  45e-12/10  45e-12/12  45e-12/14  45e-12/18  45e-12/20  45e-12/22	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth . One-part threshing concaves . Multi-part threshing concaves
45e-7/58  45e-9/00  45e-11/00  45e-11/02  45e-11/06  45e-11/08  45e-12/10  45e-12/10  45e-12/12  45e-12/14  45e-12/16  45e-12/18  45e-12/20  45e-12/22  45e-12/24  45e-12/26	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth . One-part threshing concaves
45e-7/58  45e-9/00  45e-11/00  45e-11/02  45e-11/06  45e-11/08  45e-12/00  45e-12/10  45e-12/12  45e-12/16  45e-12/18  45e-12/20  45e-12/20  45e-12/20  45e-12/24  45e-12/26  45e-12/28	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth . One-part threshing concaves . Multi-part threshing concaves . Devices for adjusting the concaves
45e-7/58  45e-9/00  45e-11/00  45e-11/02  45e-11/06  45e-11/08  45e-12/00  45e-12/10  45e-12/12  45e-12/16  45e-12/18  45e-12/20  45e-12/20  45e-12/22  45e-12/28  45e-12/30	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth . One-part threshing concaves . Multi-part threshing concaves . Devices for adjusting the concaves . Straw shakers
45e-7/58  45e-9/00  45e-11/00  45e-11/02  45e-11/06  45e-11/08  45e-12/00  45e-12/10  45e-12/12  45e-12/16  45e-12/18  45e-12/20  45e-12/20  45e-12/24  45e-12/28  45e-12/30  45e-12/32	Threshing machines with flails  Threshing machines adapted for special crops for flax for clover for maize, e.g. removing kernels from cobs for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines Feeders without band-cutters with band-cutters Safety devices Threshing devices Threshing cylinders with ribs Threshing cylinders with teeth One-part threshing concaves Multi-part threshing concaves Multi-part threshing concaves Straw shakers with shaker screens or sieves Sieve elements; Linings for shakers Sieve elements for handling short straw
45e-7/58  45e-9/00  45e-11/00  45e-11/06  45e-11/08  45e-12/00  45e-12/10  45e-12/12  45e-12/16  45e-12/16  45e-12/18  45e-12/20  45e-12/20  45e-12/22  45e-12/28  45e-12/30  45e-12/30  45e-12/36  45e-12/38	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth . One-part threshing concaves . Multi-part threshing concaves . Multi-part threshing concaves . Straw shakers . with shaker screens or sieves . Sieve elements; Linings for shakers . Sieve elements for handling short straw . with juxtaposed and independently-moved shaker bars or the like
45e-7/58  45e-9/00  45e-11/00  45e-11/06  45e-11/08  45e-12/00  45e-12/10  45e-12/12  45e-12/14  45e-12/16  45e-12/18  45e-12/20  45e-12/20  45e-12/24  45e-12/26  45e-12/36  45e-12/36  45e-12/38  45e-12/40	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth . One-part threshing concaves . Multi-part threshing concaves . Devices for adjusting the concaves . Straw shakers . with shaker screens or sieves . Sieve elements; Linings for shakers . Sieve elements for handling short straw . with juxtaposed and independently-moved shaker bars or the like . Straw crushing or cutting; Chaff-cutters
45e-7/58  45e-9/00  45e-11/00  45e-11/04  45e-11/06  45e-11/08  45e-12/10  45e-12/10  45e-12/12  45e-12/14  45e-12/16  45e-12/18  45e-12/20  45e-12/24  45e-12/26  45e-12/28  45e-12/30  45e-12/30  45e-12/30  45e-12/34  45e-12/38  45e-12/38  45e-12/40  45e-12/42	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . with band-cutters . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth . One-part threshing concaves . Multi-part threshing concaves . Devices for adjusting the concaves . Straw shakers . with shaker screens or sieves . Sieve elements; Linings for shakers . Sieve elements for handling short straw . with juxtaposed and independently-moved shaker bars or the like . Straw crushing or cutting; Chaff-cutters . Snapping-apparatus for removing awns from the grain
45e-7/58  45e-9/00  45e-11/00  45e-11/02  45e-11/06  45e-11/08  45e-12/10  45e-12/10  45e-12/12  45e-12/14  45e-12/16  45e-12/18  45e-12/20  45e-12/22  45e-12/24  45e-12/26  45e-12/36  45e-12/36  45e-12/38  45e-12/40	Threshing machines with flails  Threshing machines adapted for special crops . for flax . for clover . for maize, e.g. removing kernels from cobs . for palm fruit, e.g. releasing the fruit from the stalk  Parts or details of threshing machines . Feeders . without band-cutters . with band-cutters . Safety devices . Threshing devices . Threshing cylinders with ribs . Threshing cylinders with teeth . One-part threshing concaves . Multi-part threshing concaves . Devices for adjusting the concaves . Straw shakers . with shaker screens or sieves . Sieve elements; Linings for shakers . Sieve elements for handling short straw . with juxtaposed and independently-moved shaker bars or the like . Straw crushing or cutting; Chaff-cutters

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45e-12/48 45e-12/50 45e-12/52 45e-12/54 45e-12/56 45e-12/58	<ul> <li>Air conduits or blowers for grain</li> <li>Sack-filling devices; Counting or weighing devices (weighing apparatus per se 42f; counting mechanisms per se 42p)</li> <li>Arrangements for returning unthreshed grain to the threshing device</li> <li>Dust collecting and removing installations</li> <li>Driving mechanisms for the threshing parts</li> <li>Steering devices; Brakes; Bearings</li> </ul>
<b>Baling straw</b>	or the like
45e-13/00	Hand-operated baling apparatus
45e-15/00 45e-15/02 45e-15/04 45e-15/06 45e-15/10 45e-15/10 45e-15/12 45e-15/14 45e-15/16 45e-15/18	Baling presses for straw, hay or the like (baling presses in general 58b-14)  with press-boxes Plunger presses with double-action plunger Parts Feeding devices for the material Feeding devices for the ties Tying devices Division blocks Endless belts, rolls, etc.
Accessories	for threshing machines or baling presses
<b>45e-17/00</b> 45e-17/02 45e-17/04	Straw conveyors for threshing machines or baling presses  . Mechanical conveyors  . Pneumatic conveyors
45e-19/00	Devices for securing threshing machines for baling presses to the ground, e.g. for compensating for unevenness of the ground
45e-21/00	Devices for protecting men
Handling or	storing harvested fruit or vegetables (tea leaf rollers 53d)
45e-23/00	Removing pith from stems
45e-25/00 45e-25/02 45e-25/04 45e-25/06 45e-25/10 45e-25/10 45e-25/12 45e-25/14 45e-25/16	Storing agricultural or horticultural produce (storing goods which do not decay 81e; packing or storing hops 6a-13)  Clamps; Pits Stacks, ricks, etc. Coverings Ventilating means Shelters Racks for drying purposes Containers specially adapted for storing Arrangements in forage silos (construction 37f; loading and unloading arrangements 81e)
45e-27/00	Machines for washing potatoes, mangold, apples or like fruit (washing and drying grain 50a, washing of sugar beet or potatoes in factories for making sugar, starch or alcohol 89a, drying arrangements 82a)
45e-29/00 45e-29/02 45e-29/04 45e-29/06 45e-29/10 45e-29/12 45e-29/14 45e-29/16	Special adaptations of cutting machines for cutting straw or fodder  with knives on rotating discs with knives on rotary barrels or like surfaces with oscillating or reciprocating knives Feeding or distributing devices; Blower conveyors Devices for feeding and pressing the material Driving devices Safety devices for the machines, e.g. for removing foreign matter; Braking devices Devices for protecting men

45f-1

45e-31/00	Special adaptations of cutting machines for cutting-up straw for bedding-down animals or like purposes
45e-33/00	<b>Fodder mashers</b> (household implements for mashing potatoes or other foodstuffs 34b-37/00)
45e-35/00 45e-35/02 45e-35/04 45e-35/06 45e-35/10 45e-35/12 45e-35/14 45e-35/16 45e-35/18 45e-35/20 45e-35/22 45e-35/24	Machines for cutting, splitting, shredding or straining vegetables in bulk (for domestic purposes 34b-3/10 – 34b-3/50) . with knives on rotary discs . with knives on rotary barrels or like surfaces . with rotary cutting-rolls without knives . with oscillating or reciprocating knives . for cutting vegetables into cubes . for grating fruit . Crushing machines . with rollers . with feed-worms (screw presses for liquid products in general 58b-9; spindle and cone presses for leeched sugar beet chips 89b-5) . Machines for cutting, splitting, shredding combined with arrangements for extracting juice (cooking vessels for extracting juice 34l-2/01) . Straining products (extracting-presses 58b-10) . Apparatus for breaking oil cakes (breakers and crushing machines in general 50c)
45e-37/00 45e-37/02 45e-37/04 45e-37/06 45e-37/10 45e-37/12 45e-37/14	Machines for stoning fruit in bulk  . with feeder-drums  . with endless feeder-belts  . with feeder-tables  . for both splitting and stoning  . for stoning fruit with small pips, e.g. raisins  . for coring fruit  . for removing seed-containing sections from cut fruit
<b>45e-39/00</b> 45e-39/02 45e-39/04 45e-39/06 45e-39/08 45e-39/10	Machines for hulling, husking, or cracking nuts . with reciprocating tools . with rotary tools . with rotary tools acting by centrifugal effect . for removing fleshy or fibrous hulls of nuts . for skinning nut kernels
45e-41/00 45e-41/02 45e-41/04 45e-41/06 45e-41/08 45e-41/10	Machines for peeling vegetables or fruit in bulk (peeling machines with cutting or paring tools 34b-7/10 – 34b-7/20) . for peeling potatoes or apples . for peeling asparagus . for stringing or cutting beans . for peeling fruit and removing seed-containing sections . Driving mechanisms
<b>45e-43/00</b> 45e-43/02 45e-43/04 45e-43/06 45e-43/08	<ul> <li>Machines for other treatment of fruit in bulk (of coffee 53d; of cocoa 53f)</li> <li>for stemming, piercing or stripping fruit; Removing sprouts of potatoes (devices for stemming fruit for domestic purposes 34b-12, 34b-21/00)</li> <li>for drying, roasting, washing, or blanching fruits, e.g. coffee, nuts (drying machines in general 82a; coffee or like roasters 82a-30/50 – 82a-30/52)</li> <li>Devices for topping fruit or vegetables</li> <li>Devices for other treatment of fruit, e.g. marking, maturing, polishing</li> </ul>
45f	Gardening, culture of vegetables, fruit, vines, and hops, forestry, watering
	Gardening, culture of vegetables

Gardening and culture of vegetables in general, edging for beds, lawns, etc, fence binding, cultivation of asparagus and tools therefor, devices for cultivation of

	mushrooms (soil for mushroom cultivation 45I-2; composts or fertilisers for cultivating
45f-2	mushrooms 16)
	Grafting
45f-3	Name-plates for plants
45f-4/01	Flower or fruit shears, secateurs (45f-17)
45f-4/02	Apparatus for trimming hedges, hand-driven or machine-driven
45f-4/05	Edge trimmers, shears and sweeping apparatus for lawns, tools for cultivating turf, garden rollers (45a-49; lawn-mowers 45c-25)
45f-4/07	Removing thorns from flower stalks
45f-4/09	Tools for boring plant holes (5a-21; 5c-3; 84c; 45b-7)
45f-4/20	Other gardening tool, e.g. scrapes for removing insects from trees
	Botany in general, treatment of plants
45f-5/01	Treatment of plants with carbon dioxide (45f-11/04)
45f-5/02	Electric or magnetic treatment of plants for promoting growth (21g-16)
45f-5/05	Treatment of plants for special purposes (appliances for biological experiments 30h-14)
45f-5/07	Dying and preparatory conservation of living wood (38h-2 – 38h-5)
45f-5/10	Protective coverings, devices for laying-out coverings (45f-11/01)
45f-6/01	Apparatus for binding bouquets or wreaths
45f-6/03	Mountings for wreaths, etc., racks or holders for flowers
45f-6/05	Devices for preserving flowers (chemical agents 45I-1/03), methods and devices for
	marking plants
	Cultivation of flowers or vegetables in receptacles, forcing-frames, or
	greenhouses
45f-7/01	Flower-pots or boxes, glasses for cultivating flowers, hanging flower baskets, holders for flower-pots (34f-6/01 – 34f-6/03; decorative covers for flower pots 34f-6/04)
45f-7/03	Pots for seedlings; Soil-blocks for seedlings; Means for forming soil-blocks
45f-7/05	Flower-pot saucers
45f-7/08	Devices for cleaning flower-pots
45f-7/10	Devices for filling-up flower-pots and for setting plants in pots
45f-8	Supports for plants, trellis for strawberries (45f-7/01; 45f-15/01)
45f-9/01	Greenhouses in general
45f-9/03	Dismountable or portable greenhouses (37f-4)
45f-9/04	Forcing-frames and window frames
45f-9/06	Shades or blinds
45f-9/08	Devices for heating, ventilating, regulating temperature, or watering, in greenhouses, forcing-frames, etc. (36a; 36c)
45f-9/15	Electric heating devices for greenhouses, forcing-frames, etc.
45f-10	Devices or methods for influencing weather conditions, dispersion of natural fog (dispersion of artificial fog 61b-1/03; 62c-20/02; 65a2-72; 72g-7/04)
	Protecting plants
45f-11/01	Weather protection (45f-5/10)
45f-11/03	Devices for generating heat, smoke, or fog; generating fog to prevent damage by frost (45k-4/50)
45f-11/04	Devices for affording protection against animals, birds, or other pests (45k-5; scaring devices 45l-3/08), protection against human beings, protection for trees
	Cultivation of hops, vines or fruit
45f-12	Cultivation of hops or vines in general
45f-13/01	Supports for hops, vines, or trees
45f-13/02	Tools for attaching hops, vines, or boughs to trellis-work, tying devices
45f-14	Tree-bands (glue rings 45k-2/05)

45f-15/01 45f-15/05 45f-16/01	Props for trees or vines, devices for driving-in or pulling-out props (45f-8) Holders for boughs or branches, filling-up wounds in trees Implements for harvesting fruit, fruit pickers with or without cutters, hand-operated berry pickers, devices for fruit or berry harvesting attachable to the hand, berry-picking machines, catching devices for trees, elevators, catching cloths, baskets or bags attachable to the picker, ladders (34l-23; 61a-1 – 61a-4)
45f-16/20 45f-17	Devices for hanging-up harvested fruit Shears or saws for pruning or branching (45f-4/01)
	Forestry
45f-18	Devices for uprooting or pulling-up trees or stumps, horizontally or vertically: pulleys, levers and ratchets, screw, rack-and-pinion or hydraulic mechanisms; eliminating stumps by boring, milling, sawing, burning, blowing or splitting with wedges
45f-19	Devices for felling trees by sawing, drilling, burning, blowing, etc. (construction of saws and drills 38a, 38e); felling trees by means of wedges, milling apparatus, pulleys; devices for avoiding splitting of trunks
45f-20	Transplanting of trees, root extractors, plant boxes (45b-26)
45f-21	Tapping of tree-juices, e.g. caoutchouc, gum, etc.; receptacles for juices, tapping-spouts, etc.
	Devices for watering gardens, fields, sports grounds, etc.
45f-22	Devices for watering making use of perforated pipe-lines
45f-23/01	Devices for watering by means of spray nozzles, sprinkler nozzles, intermittent watering devices
45f-23/02	Devices for watering making use of perforated pipe-lines located in the soil
45f-23/05	Mobile liquid sprayers with water tanks or pumps
45f-23/10	Watering with liquid fertilisers, sludge, electrically charged water
45f-24	Details of watering devices (47); hose or pipe vehicles or reels (61a-15); holders for hoses or watering devices (61a-15); mixing and regulating devices
45f-25	Watering nozzles of special form, sprinklers, sprayers (45k-4/25; 61a-16/01; 85g-2; 85g-3)
45f-26	Watering cans, flower sprayers, sprayers for vines or fruit trees (45k-4/01 – 45k-4/20); automatic watering devices and humidifying devices, automatic watering of pot plants
45f-27	Watering of roots, injecting fertilisers into the roots
45f	(IPC: A01G) Culture of vegetables, flowers, fruit, vines, and hops; Forestry; Watering
45f-1/00	Horticulture; Cultivation of vegetables (implements for digging planting
	holes 45b-5/02, 45b-5/04)
45f-1/02	. Cultivation of asparagus
45f-1/04	. Cultivation of mushrooms (composts or fertilisers for cultivating mushrooms 16)
45f-1/06 45f-1/08	. Grafting (grafting-wax 45l-3/04) . Edging for beds, lawns, etc., e.g. using tiles
45f-1/10	. Name-plates for plants, sown seeds, etc.
45f-1/12	. Tools for cultivating turf; Sweeping apparatus for lawns; Garden rollers (machines for treating meadows or lawns 45a-45/00; lawn-mowers 45c-35/00 – 45c-35/26, 45c-53/00 – 45-53/14)
45f-3/00	Cutting implements specially adapted for horticultural purposes
45f-3/02	. Secateurs; Flower or fruit shears
45f-3/04	. Apparatus for trimming hedges; Hedge shears
45f-3/06 45f-3/08	. Edge trimmers for lawns; Shears for lawns (machines for lawn sod 45a-45/04) . Saws for pruning or branching
<b>45f-5/00</b> 45f-5/02	Floral handling  Apparatus for binding bouquets or wreaths
451-5/02 45f-5/04	<ul><li>. Apparatus for binding bouquets or wreaths</li><li>. Mountings for wreaths, etc.; Racks or holders for flowers</li></ul>
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45f-5/06	. Devices for preserving flowers (chemical substances 45I-3/02; flower vases 34f-6/03)
45f-7/00	Botany in general (cultivation without soil 45f-31/00)
45f-7/02	. Treatment of plants with carbon dioxide (greenhouses therefor 45f-9/18)
45f-7/04	. Electric or magnetic treatment of plants for promoting growth
45f-7/06	. Treatment of growing trees or plants, e.g. for preventing decay of wood, for tingeing flowers or wood, for prolonging the life of plants (preserving wood in general 38h-2)
45f-9/00	Cultivation of flowers or vegetables in receptacles, forcing-frames, or
45f-9/02	<ul><li>greenhouses (cultivation without soil 45f-31/00)</li><li>Receptacles, e.g. flower-pots or boxes (hanging flower baskets, holders or</li></ul>
451-9/02	containers for flower-pots 34f-6/02; decorative covers for flower pots 34f-6/04); Glasses for cultivating flowers
45f-9/04	. Flower-pot saucers
45f-9/06	. Devices for cleaning flower-pots
45f-9/08	. Devices for filling-up flower-pots; Devices for setting plants in pots
45f-9/10	. Pots for seedlings; Soil-blocks for seedlings; Means for forming soil-blocks
45f-9/12	. Supports for plants; Trellis for strawberries or the like (stays for trees, props for vines 45f-17/14)
45f-9/14 45f-9/16	. Greenhouses (cloches 45f-13/04)
45f-9/18	<ul> <li>. Dismountable or portable greenhouses (dismountable buildings in general 37f-4)</li> <li>. Greenhouses for treating plants with carbon dioxide or the like</li> </ul>
45f-9/20	. Forcing-frames; Lights
45f-9/22	. Shades or blinds for greenhouses, etc.
45f-9/24	. Devices for heating, ventilating, regulating temperature, or watering, in
	greenhouses, forcing-frames, etc. (heating devices in general 36c; electric heating
	devices 21h; ventilation devices in general 36d)
45f-9/26	Electric devices
45f-11/00	Sterilising soil by steam (chemical treatment 45I-7/00)
45f-13/00	Protecting plants
45f-13/02	Protecting plants . Protective coverings for plants; Devices for laying-out coverings
45f-13/02 45f-13/04	Protecting plants  Protective coverings for plants; Devices for laying-out coverings  Cloches
45f-13/02	Protecting plants  Protective coverings for plants; Devices for laying-out coverings  Cloches  Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to
45f-13/02 45f-13/04 45f-13/06	Protecting plants  Protective coverings for plants; Devices for laying-out coverings  Cloches  Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b)
45f-13/02 45f-13/04 45f-13/06 45f-13/08	Protecting plants  Protective coverings for plants; Devices for laying-out coverings  Cloches  Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b)  Mechanical apparatus for circulating the air
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10	Protecting plants  Protective coverings for plants; Devices for laying-out coverings  Cloches  Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b)  Mechanical apparatus for circulating the air  Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)
45f-13/02 45f-13/04 45f-13/06 45f-13/08	Protecting plants  Protective coverings for plants; Devices for laying-out coverings  Cloches  Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b)  Mechanical apparatus for circulating the air  Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10	Protecting plants  Protective coverings for plants; Devices for laying-out coverings  Cloches  Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b)  Mechanical apparatus for circulating the air  Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10	Protecting plants  Protective coverings for plants; Devices for laying-out coverings  Cloches  Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b)  Mechanical apparatus for circulating the air  Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/04	Protecting plants  Protective coverings for plants; Devices for laying-out coverings  Cloches  Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b)  Mechanical apparatus for circulating the air  Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees  Cultivation of hops or vines  Supports for hops, vines, or trees
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/04 45f-17/06	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work
45f-13/02 45f-13/04 45f-13/06 45f-13/10 45f-15/00 45f-17/00 45f-17/02 45f-17/04 45f-17/06 45f-17/08	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Tools for attaching hops, vines, or boughs to trellis-work; Tying devices
45f-13/02 45f-13/04 45f-13/06 45f-13/10 45f-15/00 45f-17/00 45f-17/02 45f-17/06 45f-17/08 45f-17/10	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Holders for boughs or branches
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/04 45f-17/08 45f-17/10 45f-17/10	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Tools for attaching hops, vines, or boughs to trellis-work; Tying devices Holders for boughs or branches Tree-bands (glue rings for trees 45k-1/18)
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/06 45f-17/08 45f-17/10 45f-17/12 45f-17/14	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Tools for attaching hops, vines, or boughs to trellis-work; Tying devices Holders for boughs or branches Tree-bands (glue rings for trees 45k-1/18) Props; Stays
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/04 45f-17/08 45f-17/10 45f-17/10	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Tools for attaching hops, vines, or boughs to trellis-work; Tying devices Holders for boughs or branches Tree-bands (glue rings for trees 45k-1/18)
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/06 45f-17/08 45f-17/10 45f-17/12 45f-17/14 45f-17/16	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Tools for attaching hops, vines, or boughs to trellis-work; Tying devices Holders for boughs or branches Tree-bands (glue rings for trees 45k-1/18) Props; Stays Devices for driving-in or pulling-out props
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/08 45f-17/08 45f-17/10 45f-17/12 45f-17/14 45f-17/16 45f-17/18	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Tools for attaching hops, vines, or boughs to trellis-work; Tying devices Holders for boughs or branches Tree-bands (glue rings for trees 45k-1/18) Props; Stays Devices for driving-in or pulling-out props Means for filling-up wounds in trees
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/06 45f-17/08 45f-17/10 45f-17/12 45f-17/14 45f-17/16 45f-17/18 <b>45f-19/00</b> 45f-19/02 45f-19/04	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Tools for attaching hops, vines, or boughs to trellis-work; Tying devices Holders for boughs or branches Tree-bands (glue rings for trees 45k-1/18) Props; Stays Devices for driving-in or pulling-out props Means for filling-up wounds in trees  Picking hops or fruit Picking hops Platforms with lifting and lowering devices
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/06 45f-17/08 45f-17/10 45f-17/12 45f-17/14 45f-17/18 <b>45f-17/18</b> <b>45f-19/00</b> 45f-19/04 45f-19/06	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Tools for attaching hops, vines, or boughs to trellis-work; Tying devices Holders for boughs or branches Tree-bands (glue rings for trees 45k-1/18) Props; Stays Devices for driving-in or pulling-out props Means for filling-up wounds in trees  Picking hops or fruit Picking hops Platforms with lifting and lowering devices Baskets or bags attachable to the picker
45f-13/02 45f-13/04 45f-13/06 45f-13/08 45f-13/10 <b>45f-15/00</b> <b>45f-17/00</b> 45f-17/02 45f-17/06 45f-17/08 45f-17/10 45f-17/12 45f-17/14 45f-17/16 45f-17/18 <b>45f-19/00</b> 45f-19/02 45f-19/04	Protecting plants Protective coverings for plants; Devices for laying-out coverings Cloches Devices for generating heat, smoke, or fog in gardens, orchards, or forests, e.g. to prevent damage by frost (chemical section 78d; infrared radiators 36b) Mechanical apparatus for circulating the air Devices for affording protection against animals, birds, or other pests (traps 45k-23/00; chemical deterrents 45l-9/00)  Devices or methods for influencing weather conditions (dispersing fog in general 19b-7)  Cultivation of hops, vines, fruit trees, or like trees Cultivation of hops or vines Supports for hops, vines, or trees Trellis-work Tools for attaching hops, vines, or boughs to trellis-work; Tying devices Holders for boughs or branches Tree-bands (glue rings for trees 45k-1/18) Props; Stays Devices for driving-in or pulling-out props Means for filling-up wounds in trees  Picking hops or fruit Picking hops Platforms with lifting and lowering devices

<b>45f-23/00</b> 45f-23/02	Forestry . Transplanting, uprooting, or felling trees (transplanting machines 45b-11/00)
45f-23/04	Transplanting trees; Devices for grasping the root ball, e.g. stump forceps;
45f-23/06	Wrappings or packages for transporting trees  . Devices for uprooting or pulling-up trees; Devices for extracting or eliminating
4Ef 22/00	stumps (crow bars 35d-2/01)
45f-23/08 45f-23/10	Devices for felling trees (saws 38a; axes 69-22) . Tapping of tree-juices, e.g. caoutchouc, gum
45f-23/12	Knives or axes for tapping
45f-23/14	Tapping-spouts; Receptacles for juices
45f-25/00	Watering gardens, fields, sports grounds, etc. (special apparatus or adaptations for fertilising-liquids 45b-23/00; nozzles 85g)
45f-25/02	. Watering arrangements making use of perforated pipe-lines located above the soil
45f-25/04	. Watering by means of spray nozzles, sprinkler nozzles, fine sprinklers or rotating
	sprinklers, intermittent watering devices (pipe connections 47f, nozzles, valves or filters for sprayers 45k-7/22)
45f-25/06	. Watering arrangements making use of perforated pipe-lines located in the soil
45f-25/08	. Mobile liquid sprayers [sprinklers] with water tanks or pumps (construction of pumps 59a, 59b)
45f-25/10	. Spraying of electrically charged water
45f-25/12	. Details of watering installations (hose vehicles or reels 81c, 61a-15); Supports for
45f-25/14	garden watering systems . Hand watering devices, e.g. watering cans (sprayers for pesticides 45k-7/00 –
	45k-7/22)
45f-27/00	Self-acting watering devices, e.g. for flower-pots
45f-29/00	Root feeders; Injecting fertilisers into the roots
45f-31/00	Hydroponics; Cultivation without soil
45f-31/02	. Special apparatus therefor (apparatus for cultivation in receptacles or greenhouses
	in general 45f-9/00; self-acting watering devices 45f-27/00)
45a	
45g	in general 45f-9/00; self-acting watering devices 45f-27/00)  Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)
45g	Manufacture of dairy products, mechanic part (chemical part 53e,
45g-1/01	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices  Devices for milking by hand in general
45g-1/01 45g-1/02	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices  Devices for milking by hand in general  Milking stools
45g-1/01 45g-1/02 45g-1/03	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices  Devices for milking by hand in general  Milking stools  Milking pails, also combined with milking stools
45g-1/01 45g-1/02	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices  Devices for milking by hand in general  Milking stools
45g-1/01 45g-1/02 45g-1/03 45g-1/04 45g-1/05 45g-1/06	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices  Devices for milking by hand in general  Milking stools  Milking pails, also combined with milking stools  Holding or supporting devices for milking receptacles  Milk receptacles with straining or filtering devices  Milk receptacles with cooling arrangements
45g-1/01 45g-1/02 45g-1/03 45g-1/04 45g-1/05 45g-1/06 45g-1/07	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices Devices for milking by hand in general Milking stools Milking pails, also combined with milking stools Holding or supporting devices for milking receptacles Milk receptacles with straining or filtering devices Milk receptacles with cooling arrangements Milk receptacles with self-closing valve
45g-1/01 45g-1/02 45g-1/03 45g-1/04 45g-1/05 45g-1/06 45g-1/07 45g-1/08	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices Devices for milking by hand in general Milking stools Milking pails, also combined with milking stools Holding or supporting devices for milking receptacles Milk receptacles with straining or filtering devices Milk receptacles with cooling arrangements Milk receptacles with self-closing valve Devices for protecting the udders when milking
45g-1/01 45g-1/02 45g-1/03 45g-1/04 45g-1/05 45g-1/06 45g-1/07 45g-1/08 45g-2	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices  Devices for milking by hand in general  Milking stools  Milking pails, also combined with milking stools  Holding or supporting devices for milking receptacles  Milk receptacles with straining or filtering devices  Milk receptacles with cooling arrangements  Milk receptacles with self-closing valve  Devices for protecting the udders when milking  Milking with catheters
45g-1/01 45g-1/02 45g-1/03 45g-1/04 45g-1/05 45g-1/06 45g-1/07 45g-1/08 45g-2 45g-3	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices Devices for milking by hand in general Milking stools Milking pails, also combined with milking stools Holding or supporting devices for milking receptacles Milk receptacles with straining or filtering devices Milk receptacles with cooling arrangements Milk receptacles with self-closing valve Devices for protecting the udders when milking
45g-1/01 45g-1/02 45g-1/03 45g-1/04 45g-1/05 45g-1/06 45g-1/07 45g-1/08 45g-2	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices Devices for milking by hand in general Milking stools Milking pails, also combined with milking stools Holding or supporting devices for milking receptacles Milk receptacles with straining or filtering devices Milk receptacles with cooling arrangements Milk receptacles with self-closing valve Devices for protecting the udders when milking Milking with catheters Mechanically operated milking machines
45g-1/01 45g-1/02 45g-1/03 45g-1/05 45g-1/05 45g-1/07 45g-1/08 45g-2 45g-3 45g-4/01 45g-4/02 45g-4/03	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices  Devices for milking by hand in general  Milking stools  Milking pails, also combined with milking stools  Holding or supporting devices for milking receptacles  Milk receptacles with straining or filtering devices  Milk receptacles with cooling arrangements  Milk receptacles with self-closing valve  Devices for protecting the udders when milking  Milking with catheters  Mechanically operated milking machines  Milking machines operating with suction  Milking machines operating with pneumatic or hydraulic pressure  Milking machines operating suction and pressure
45g-1/01 45g-1/02 45g-1/03 45g-1/05 45g-1/05 45g-1/07 45g-1/08 45g-2 45g-3 45g-4/01 45g-4/02 45g-4/03 45g-4/04	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices  Devices for milking by hand in general  Milking stools  Milking pails, also combined with milking stools  Holding or supporting devices for milking receptacles  Milk receptacles with straining or filtering devices  Milk receptacles with cooling arrangements  Milk receptacles with self-closing valve  Devices for protecting the udders when milking  Milking with catheters  Mechanically operated milking machines  Milking machines operating with pneumatic or hydraulic pressure  Milking machines operating suction and pressure  Pulsators for milking machines in general
45g-1/01 45g-1/02 45g-1/03 45g-1/05 45g-1/05 45g-1/07 45g-1/08 45g-2 45g-3 45g-4/01 45g-4/02 45g-4/03 45g-4/04 45g-4/05	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices Devices for milking by hand in general Milking stools Milking pails, also combined with milking stools Holding or supporting devices for milking receptacles Milk receptacles with straining or filtering devices Milk receptacles with cooling arrangements Milk receptacles with self-closing valve Devices for protecting the udders when milking Milking with catheters Mechanically operated milking machines Milking machines operating with suction Milking machines operating with pneumatic or hydraulic pressure Milking machines operating suction and pressure Pulsators for milking machines in general Membrane pulsators
45g-1/01 45g-1/02 45g-1/03 45g-1/05 45g-1/05 45g-1/07 45g-1/08 45g-2 45g-3 45g-4/01 45g-4/02 45g-4/03 45g-4/04	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices  Devices for milking by hand in general  Milking stools  Milking pails, also combined with milking stools  Holding or supporting devices for milking receptacles  Milk receptacles with straining or filtering devices  Milk receptacles with cooling arrangements  Milk receptacles with self-closing valve  Devices for protecting the udders when milking  Milking with catheters  Mechanically operated milking machines  Milking machines operating with pneumatic or hydraulic pressure  Milking machines operating suction and pressure  Pulsators for milking machines in general
45g-1/01 45g-1/02 45g-1/03 45g-1/05 45g-1/05 45g-1/07 45g-1/08 45g-2 45g-3 45g-4/01 45g-4/02 45g-4/03 45g-4/04 45g-4/05 45g-4/06	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices Devices for milking by hand in general Milking stools Milking pails, also combined with milking stools Holding or supporting devices for milking receptacles Milk receptacles with straining or filtering devices Milk receptacles with cooling arrangements Milk receptacles with self-closing valve Devices for protecting the udders when milking Milking with catheters Mechanically operated milking machines Milking machines operating with suction Milking machines operating with pneumatic or hydraulic pressure Milking machines operating suction and pressure Pulsators for milking machines in general Membrane pulsators Electromagnetic pulsators
45g-1/01 45g-1/02 45g-1/03 45g-1/05 45g-1/05 45g-1/07 45g-1/08 45g-2 45g-3 45g-4/01 45g-4/02 45g-4/03 45g-4/04 45g-4/05 45g-4/06 45g-4/10	Manufacture of dairy products, mechanic part (chemical part 53e, separators 82b)  Milking devices, also in combination with straining or cooling devices Devices for milking by hand in general Milking stools Milking pails, also combined with milking stools Holding or supporting devices for milking receptacles Milk receptacles with straining or filtering devices Milk receptacles with cooling arrangements Milk receptacles with self-closing valve Devices for protecting the udders when milking Milking with catheters Mechanically operated milking machines Milking machines operating with suction Milking machines operating with pneumatic or hydraulic pressure Milking machines operating suction and pressure Pulsators for milking machines in general Membrane pulsators Electromagnetic pulsators Teat-cups for milking machines

	Treatment of milk
45g-5/01	Preventing or destroying foam (12a-1; 82b-16)
45g-5/02	Appliances for aerating or de-aerating milk, deodorising, also combined with cooling
109 0/02	(82b-16)
45g-5/08	Strainers or filters for milk (filters 12d-25)
45g-5/09	Holders for strainers or cloth filters
45g-5/10	Special purifying devices
45g-7/01	Cream settling devices (separators 82b)
45g-7/02	Cream separators
45g-7/03	Cream skimmers
45g-7/05	Tanks for treating cream
	Devices for manufacture or treatment of butter
45g-15/01	Stationary churns with one beater rotating around a vertical or inclined axis
45g-15/02	Stationary churns with beaters oscillating around a vertical or inclined axis
45g-15/03	Stationary churns with two or more beaters rotating around a vertical or inclined axis
45g-15/06	Stationary churns with one beater rotating around a horizontal axis
45g-15/07	Stationary churns with two or more beaters rotating around a horizontal axis
45g-15/08	Stationary churns with beaters oscillating around a horizontal axis
45g-15/12	Rotating churns with stationary or mobile beaters or vanes
45g-15/15	Devices for heating, cooling or aerating of the material in churns with beaters
45g-16	Centrifugal churns
_	Churns without beaters
45g-17/01	reciprocating
45g-17/02	oscillating
45g-17/03	vertically moving
45g-18/01	Special devices for manufacturing butter other than by churns
45g-18/02	Churns with arrangements for making butter by blowing-in air
45g-19/01	Details of churns with beaters
45g-19/02	Lids or covers for butter churns
45g-19/03	Beaters for butter churns
45g-20	Small dairy plants: arrangement of separators, churns and kneading machines
45g-21/01	Kneading machines for butter
45g-21/02	Driving arrangements for kneading machines
45g-22/01	Churns with hand- or foot-driven plunger
45g-22/02	Churns with more than one plunger
45g-22/03	Churns with mechanically driven plungers
45g-22/04	Plungers
45g-23/01	Butter kneading machines with roller and stationary kneading table (53h-2)
45g-23/02	Butter kneading machines with roller and rotating kneading table (53h-2)
45g-23/03	Butter kneading machines of special construction (53h-2)
	Cheese-making, mechanical part (chemical part 53e)
45g-24/01	Cheese-making plant, e.g. heating and ventilation of storage cellars, maturing of
45 - 04/00	cheese, etc.
45g-24/02	Cheese basins
45g-24/03	Devices for cleaning cheese basins
45g-24/04	Devices for dividing curdled milk
45g-24/05	Devices for removing cheese from basins
45g-24/06	Devices for cheese-making: mills, presses, moulds, shaping machines
45g-24/07	Devices for treating cheese during ripening

45g-15/25

## Forming butter (34b) 45g-25/01 Hand devices for forming slabs of butter (34b) 45g-25/03 Machines for forming slabs of butter by pressing into moulds (2b) Machines for forming slabs of butter by extruding and cutting (2b) 45q-25/06 45g-25/09 Devices for dividing bulk butter (2b) (IPC: A01J) Manufacture of dairy products, mechanic part 45g **Milking** 45g-1/00 Devices or accessories for milking by hand . Single-leg milking stools (stools and chairs in general 34g) 45g-1/02 Milking with catheters 45g-3/00 45g-5/00 Appliances for milking mechanically . with mechanical treatment of teats 45g-5/02 45q-5/04 . with pneumatic treatment of teats . . Teat-cups with one chamber 45q-5/06 . . Teat-cups with two chambers 45g-5/08 . . Pulsators arranged otherwise than on teat-cups 45q-5/10 . . . with membranes 45g-5/12 . . . electromagnetically controlled 45g-5/14 . . Teat-cups with pulsating devices 45g-5/16 45g-7/00 Other accessories for milking machines 45g-9/00 Milk receptacles (containers in general 81c) 45q-9/02 . with straining and filtering devices 45q-9/04 . with cooling arrangements 45g-9/06 . with self-closing valve . Holding or supporting devices for milking receptacles 45q-9/08 45g-9/10 . Milking pails connected with milking stools Treatment of milk or cream 45g-11/00 **Apparatus for treating milk** (pasteurising 53e) 45g-11/02 . Appliances for preventing or destroying foam (in centrifuges 82b-16) 45g-11/04 . Appliances for aerating or de-aerating milk (in centrifuges 82b-16) 45g-11/06 . Strainers or filters for milk (filtering materials 12d-25) 45g-11/08 . . Holders for strainers or cloth filters 45g-11/10 . Separating milk from cream (milk centrifuges 82b) 45g-11/12 . . Appliances for removing cream . . . by raising the level of the milk 45g-11/14 45g-11/16 . Homogenising milk 45g-13/00 Tanks for treating cream Manufacturing butter 45q-15/00 Manufacturing butter 45g-15/02 . Stationary churns with beating equipment 45g-15/04 . Rotating or oscillating churns . . with beating equipment which is movable in respect of the churn wall 45g-15/06 45g-15/08 . . without beating equipment which is movable in respect of the churn wall 45g-15/10 . Devices for manufacturing butter other than by churns 45g-15/12 . . with arrangements for making butter in a continuous process 45g-15/14 . Churns with arrangements for making butter by blowing-in air . Details; Accessories 45g-15/16 . . Devices for de-aerating 45g-15/18 . . Incorporation of revolution counters; Incorporation of alarm devices 45g-15/20 . . Lids or covers for butter churns 45g-15/22 . . Beaters for butter churns 45g-15/24

. . Means for removing butter from churns or the like

45a-15/26 . Combined appliances for separating, churning and kneading 45g-15/28 . Driving mechanisms Kneading or forming butter; Kneading or forming margarine or butter substitutes 45g-17/00 Kneading machines for butter, etc. 45g-19/00 Hand devices for forming slabs of butter, etc. 45g-21/00 Machines for forming slabs of butter, etc. (dough moulding machines 2b-7/01) 45g-21/02 . with extruding arrangements and cutting devices, with or without packing devices 45q-23/00 Devices for dividing bulk butter, etc. (domestic cutting or dividing tools for butter 34b-6/10) Cheese-making 45g-25/00 Cheese-making (methods 53e-6) 45g-25/02 . Cheese basins 45g-25/04 . . Devices for cleaning cheese basins 45g-25/06 . Devices for dividing curdled milk 45g-25/08 . Devices for removing cheese from basins 45g-25/10 . Devices for removing whey from basins 45q-25/11 . Separating whey from curds; Washing the curds 45g-25/12 . Forming the cheese 45g-25/13 . . Moulds therefor 45q-25/14 . . Moulds or presses therefor . . Presses therefor 45a-25/15 45g-25/16 . Devices for treating cheese during ripening 45q-27/00 After-treatment of cheese; Coating the cheese 45q-27/02 . Coating the cheese, e.g. with paraffin wax 45q-27/04 Milling or recasting cheese 45h Animal husbandry, fishing Animal husbandry in general, cattle-raising (accessories for biological experiments 30h-14) 45h-1 Equipment for stables, e.g. flooring, partitions, feed racks (ventilation of stables 36d; 37d-6/01; 37d-7/01; 37f-2/01) 45h-2 Devices for fastening animals, e.g. toggles, neck-bars, chain fastenings (halters 56b-23) 45h-3 Arrangements for releasing animals Feeding devices for stock or game (for poultry 45h-14/01, 45h-14/20) 45h-4 45h-5 Automatic feeding devices 45h-6 Watering equipment for stock or game 45h-7 Sucking apparatus for young stock 45h-8 Marking of animals (for poultry 45h-13/10; sealing tongs 87b-5; registration stamps 43a-14; date stamps 15h-1/09) Devices for grooming or caring of animals, e.g. curry-combs (scissors 69-5), fetlock 45h-9 rings (30c-7/01), tail holders, devices for preventing crib-biting, washing devices (for medical purposes 30e-7/02), protection against sunlight or insects Devices for taming animals, e.g. nose-rings, lassos; fettering devices for taming in 45h-10 general, training equipment, supports for mating (supports for shoeing 45i-13/50), fettering devices for particular purposes 30c-5; 56b-26; 66a-4/01) 45h-11 Special devices for animal husbandry, e.g. for dehorning, horn training, weaning or preventing mating, manure or urine pouches 45h-12/01 Muzzles 45h-12/50 Leads or collars, e.g. for dogs

45h-23

## Aviculture; devices and methods for testing, cleaning, stamping, weighing or grading eggs

Aviculture in general 45h-13/01 **Nests** 45h-13/02 Nest-eggs 45h-13/03 Aviculture appliances, e.g. devices for determining whether a bird is about to lay 45h-13/10 Marking poultry, e.g. with foot rings 45h-13/20 Constraining birds, e.g. wing clamps 45h-13/50 **Nest-boxes** Artificial hens 45h-13/60 Devices for feeding poultry 45h-14/01 45h-14/10 Devices for watering poultry 45h-14/20 Combined feeding and watering devices Devices for force-feeding poultry 45h-14/30 45h-15/01 Incubators for poultry in general (heating cabinets 42i-12/01) 45h-15/02 Heating devices, also for artificial hens 45h-15/03 Controlling humidity in incubators (36d-1/14; 42i-19/01) 45h-15/04 Egg-turning appliances for incubators 45h-15/50 Electrically heated incubators 45h-16/01 Testing eggs by candling 45h-16/02 Grading eggs according to size 45h-16/03 Grading eggs according to weight 45h-16/04 Cleaning eggs 45h-16/05 Stamps for eggs, combined with grading devices etc. (egg stamps in general 15h-1/09) 45h-17/01 Chicken coops or houses 45h-17/02 Arrangements at perches, also protection against insects 45h-17/03 Devices for automatic opening and closing of the coop door (counting of poultry 42p-6, 42p-8) 45h-17/04 Devices for gathering and removing excrement 45h-17/07 Poultry cages (81c) 45h-17/08 Collapsible poultry cages 45h-17/09 Doors for cages 45h-17/12 Bird cages, aviaries and dovecotes 45h-17/13 Collapsible bird cages Breeding worms and insects, apiculture 45h-18 Breeding worms and insects 45h-19/01 Honey extractors 45h-19/05 Devices for uncapping honeycombs 45h-19/10 Devices for extracting wax from honeycombs (23a-1) 45h-20/01 **Beehives** 45h-20/10 Construction or arrangement of frames for honeycombs 45h-20/20 Artificial honeycombs Details of beehives, e.g. ventilating devices, entrances to hives, guards, partitions, bee 45h-20/25 escapes 45h-20/30 Rearing-boxes; auxiliary cages 45h-20/35 Appliances for treating beehives or parts thereof 45h-21 Feeding or drinking appliances for bees 45h-22 Bee-smokers, bee-keepers' smoking pipes

Appliances for providing, preventing, or catching swarms; drone-catching devices

	Pisciculture
45h 04/04	
45h-24/01	Culture of fish, mussels, crayfish, lobsters, sponges, pearls, etc.
45h-24/02	Feeding devices for fish  Pavings for reconditioning of water in recentaging for live fish (95c)
45h-25 45h-26	Devices for reconditioning of water in receptacles for live fish (85c)
4511-26	Aquaria, terraria
	Fishing with nets
45h-27/01	Trawling nets
45h-27/10	Traps
45h-27/15	Fixed nets
45h-27/20	Landing-nets, landing spoons
45h-27/25	Illuminating devices for nets
45h-27/30	Catching fish by means of electricity
45h-27/40	Other methods or means, except angling, of catching fish, also devices for indicating shoals
45h-28/01	Devices for lateral spreading of trawling nets
45h-28/10	Devices for vertical spreading of trawling nets, floats
45h-28/20	Ground-line rollers, sinkers
	Fishing with projectiles
45h-29/01	Harpoons
45h-29/02	Fish-spears
	Angling
45h-30/01	Hooks in general
45h-30/02	Expanding fish-hook assemblies
45h-30/03	Hooks with special gripping arms
45h-30/10	Artificial baits of animal form with hooks, in general
45h-30/11	Artificial baits with jerking hooks
45h-30/12	Artificial baits flat bodies
45h-30/13	Artificial flies
45h-30/14	Artificial baits with mechanical drive
45h-30/20	Holders for bait
45h-31/01	Angling rods in general
45h-31/02	Connecting devices for parts of the rods
45h-31/03	Fishing-line guides on rods
45h-31/04	Devices for fixing reels on rods
45h-31/10	Reels in general
45h-31/11	Brake devices for reels
45h-31/12	Line guides on reels
45h-31/20	Reels for drying fish lines
45h-31/25	Lines, manufacture and treatment
45h-31/30	Devices for casting lines
45h-31/35	Devices for connecting hooks to lines
45h-31/40	Supports for rods
45h-31/45	Containers for rods
45h-31/50	Containers and holders for hooks
45h-31/55	Containers for baits
45h-31/60	Floats
45h-31/65	Sinkers
45h-31/70	Devices for signalling or hauling when biting
45h-31/75	Gaffs etc. for landing the catch
45h-31/80	Other tools and devices for angling

45h-31/22

. Poultry runs

## 45h (IPC: A01K) Animal husbandry; Care of birds, fishes, insects; **Fishing** Animal husbandry in general, especially cattle-raising 45h-1/00 Housing animals; Equipment therefor (ventilating buildings 36d; building construction, features of buildings 37f-2/01) 45h-1/02 . Pigsties; Dog-kennels; Rabbit-hutches or the like 45h-1/04 . Tethering-poles or the like 45h-1/06 . Devices for fastening animals, e.g. halters, toggles, neck-bars, chain fastenings . Arrangements for simultaneously releasing several animals 45h-1/08 45h-1/10 . Feed racks 45h-3/00 Pasturing equipment, e.g. tethering devices; Grids for preventing cattle from straying; Mechanical aspects of electrified wire fencing (electric circuits for fences 21g-7/02) 45h-5/00 Feeding devices for stock or game (for poultry 45h-39/00) 45h-5/02 . Automatic devices 45h-7/00 Watering equipment for stock or game 45h-7/02 . Automatic devices 45h-9/00 Sucking apparatus for young stock 45h-11/00 Marking of animals (of poultry 45h-35/00; lead-sealing pliers 87b-5) 45h-13/00 Devices for grooming or caring of animals, e.g. curry-combs (scissors 69-5); Fetlock rings (bandages, poultices 30c-7/01); Tail-holders; Devices for preventing crib-biting; Washing devices (for medical purposes 30e-7/02); Protection against weather conditions or insects 45h-15/00 Devices for taming animals, e.g. nose-rings, hobbles; Devices for overturning animals in general; Training equipment; Covering boxes (devices for veterinary purposes 30c-5) 45h-17/00 **Dehorners**; Horn trainers 45h-19/00 Weaning apparatus Devices for assisting or preventing mating (stands 45h-15/00) 45h-21/00 45h-23/00 Manure or urine pouches 45h-25/00 Muzzles 45h-27/00 Leads or collars, e.g. for dogs 45h-29/00 Other apparatus for animal husbandry Aviculture; Testing, cleaning, stamping, or grading eggs **Housing birds** 45h-31/00 45h-31/02 . Door appliances; Automatic door-openers (counters for specific applications 42p, 42m7) 45h-31/04 . Dropping-boards; Devices for removing excrement 45h-31/06 . Cages (transport containers in general 81c) . . Collapsible cages 45h-31/08 . Doors: Trap-doors 45h-31/10 . Perches 45h-31/12 45h-31/14 . Nest-boxes . . Laying nests for poultry 45h-31/16 . Chicken coops or houses; Brooders 45h-31/18 45h-31/20 . . Heating arrangements

45h-33/00	Nest-eggs
45h-35/00	Marking poultry or other birds
45h-37/00	Constraining birds, e.g. wing clamps
<b>45h-39/00</b> 45h-39/02 45h-39/04 45h-39/06	Feeding appliances for poultry or other birds  Drinking appliances (construction of valves 47g)  Combined feeding and drinking appliances  Cramming appliances
<b>45h-41/00</b> 45h-41/02 45h-41/04 45h-41/06	Incubators for poultry . Heating arrangements . Controlling humidity in incubators . Egg-turning appliances for incubators
45h-43/00 45h-43/02 45h-43/04 45h-43/06 45h-43/08 45h-43/10	Testing, sorting, or cleaning eggs . Testing by candling . Grading eggs . according to size . according to weight (sorting according to weight in general 42f) . Grading and stamping (stamping in general 15h)
45h-45/00	Other aviculture appliances, e.g. devices for determining whether a bird is about to lay or for determining or influencing the sex
<u>Apiculture</u>	
<b>45h-47/00</b> 45h-47/02 45h-47/04 45h-47/06	Beehives  Construction or arrangement of frames for honeycombs  Artificial honeycombs  Other details of beehives, e.g. ventilating devices, entrances to hives, guards, partitions, bee escapes
45h-49/00	Rearing-boxes; Queen transporting or introducing cages
45h-51/00	Appliances for treating beehives or parts thereof, e.g. for cleaning or disinfecting
45h-53/00	Feeding or drinking appliances for bees
45h-55/00	Bee-smokers; Bee-keepers' accessories, e.g. veils, smoking pipes
45h-57/00	Appliances for providing, preventing, or catching swarms; Dronecatching devices
<b>45h-59/00</b> 45h-59/02 45h-59/04 45h-59/06	Honey collection  . Devices for uncapping honeycombs  . Honey strainers  . Devices for extracting wax (extraction of waxes by melting, in general 23a-1)
<u>Pisciculture</u>	
<b>45h-61/00</b> 45h-61/02	Culture of fish, mussels, crayfish, lobsters, sponges, pearls, etc.  . Feeding devices for fish
<b>45h-63/00</b> 45h-63/02 45h-63/04	Receptacles for live fish; Reconditioning of water in such receptacles (sewage purification in general 85c)  . Devices for transporting live fish  . Aquaria; Terraria
45h-64/00	Aquaria; Terraria
45h-65/00	Fish stringers
<b>45h-67/00</b> 45h-67/02	Rearing living beings in general . Methods for breeding vertebrates

45h-97/02

. Devices for laying ground-bait

45h-67/04 . Silkworms **Fishing** 45h-69/00 Stationary catching devices 45h-69/02 . Fixed nets without traps . Fixed nets with traps 45h-69/04 45h-69/06 . Traps 45h-69/08 . . Rigid traps, e.g. lobster pots 45h-69/10 . . Collapsible traps 45h-71/00 Floating nets 45h-73/00 **Drawn nets** 45h-73/02 . Trawling nets 45h-73/04 . . Devices for spreading or lateral sheering of trawl boards 45h-73/06 . . Hauling devices for the headlines 45h-73/08 . . Ground-line rollers; Sinkers (for angling 45h-95/00) 45h-73/10 . . Determining the quantity of the catch, e.g. by the pull or drag on the lines 45h-73/12 . Nets held vertically in the water, e.g. seines 45h-75/00 Other catching nets or like; Accessories 45h-75/02 . Illuminating devices for nets 45h-77/00 Landing-nets; Landing-spoons 45h-79/00 Other methods or means of catching fish in bulk 45h-79/02 . by electrocution (electric circuits therefor 21g-7/03) 45h-81/00 Fishing with projectiles 45h-81/02 . Harpoons (electric circuits therefor 21g-7/04) 45h-81/04 . Fish-spears . Equipment for hunting fish under water (swimming equipment 77a-31/00 -45h-81/06 77a-35/00) **Angling** 45h-83/00 Fish-hooks 45h-83/02 . Expanding fish-hook assembly 45h-83/04 . with special gripping arms 45h-83/06 . Devices for holding bait on hooks 45h-85/00 **Artificial baits** 45h-85/02 . with jerking hooks 45h-85/04 . with flat bodies . with mechanical drive 45h-85/06 45h-85/08 . Artificial flies 45h-87/00 . Connecting devices for parts of the rods 45h-87/02 45h-87/04 . Fishing-line guides on rods 45h-87/06 . Devices for fixing reels on rods 45h-89/00 Reels 45h-89/02 . Brake devices for reels . Guides on reels 45h-89/04 45h-91/00 45h-91/02 . Devices for casting lines 45h-91/04 . Devices for connecting hooks to lines 45h-93/00 Floats, with or without signalling devices 45h-95/00 Sinkers (for trawling 45h-73/08) 45h-97/00 Accessories for angling

45h-97/04 45h-97/06	. Containers for balts
4511-97/06	. Containers and holders for hooks
45h-97/08	. Containers for rods
45h-97/10	. Supports for rods
45h-97/12	. Signalling devices, e.g. tip-up devices
45h-97/14	. Gaffs
45h-97/16	. Devices for drying fishing lines

45i	Shoeing of animals
45i-1/01 45i-1/02 45i-1/03 45i-1/04 45i-1/05 45i-1/06 45i-1/07 45i-1/08	Shoes for horses or other solipeds fastened with nails (49i-1) Horseshoes consisting of one part Welded calks and studs (49i-1) Screwed calks and studs (49i-1) Insertable calks and studs (49i-1) Insertable calks and studs with securing means Other removable calks and studs, ice studs (71b-13) Removable calk and stud plates Elastic calks and studs
45i-2/01 45i-2/02 45i-2/03	Horseshoes consisting of multiple parts, fastened with nails with superimposed parts of iron with superimposed parts of iron and elastic material Horseshoes with hinges
45i-3/01 45i-3/02 45i-3/03 45i-3/04 45i-3/05	Horseshoes fastened by means other than nails one-part, with special fastening means encircling the hoof one-part, with fastening means penetrating the hoof one-part, with clamps with hinges and fastening boots  Bog shoes
45i-4/01 45i-4/02 45i-4/03	Horseshoes made of elastic materials of plate-like or horseshoe form, with metal reinforcement of plate-like or horseshoe form, without metal reinforcement Hoof boots
45i-5/01 45i-5/02 45i-5/03 45i-5/04 45i-5/05	Elastic inserts or soles for horseshoes fastened with nails covering the hoof of horseshoe form for the heels in grooved horseshoes in special recesses
45i-13/01 45i-13/02 45i-13/03 45i-13/04 45i-13/50 45i-13/50 45i-14 45i-15 45i-16	Farriers' tools and appliances in general Devices for spreading and removing horseshoes Devices for measuring horseshoes Hammers for horseshoe nails and devices for clinching the nail Devices for working on the hoof Supports for shoeing Horseshoe nails Shoes for artiodactyls, e.g. oxen Substances and apparatus or for the care of hoofs

45:	(IDO: AOAL) Ob a simulationals
45i	(IPC: A01L) Shoeing of animals
<b>45i-1/00</b> 45i-1/02 45i-1/04	Shoes for horses or other solipeds fastened with nails (manufacturing horse shoes by forging 49i-1, 7h-15/02)  . Solid horseshoes consisting of one part  . Solid horseshoes consisting of multiple parts
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<b>45i-3/00</b> 45i-3/02 45i-3/04 45i-3/06	Horseshoes fastened by means other than nails, with or without additional fastening by nailing  . Horseshoes consisting of one part  . Horseshoes consisting of two or more parts connected by hinged joints  . Shoe-like appliances enabling draught animals to walk on bogs or the like
45i-5/00	Horseshoes made of elastic materials
<b>45i-7/00</b> 45i-7/02 45i-7/04 45i-7/06 45i-7/08 45i-7/10	Accessories for shoeing animals . Elastic inserts or soles for horseshoes . Solid calks or studs (making shoe calks by forging 49i-2) . Elastic calks or studs . Ice-spurs for horseshoes (for normal shoes 71b-5/06) . Horseshoe nails
45i-9/00	Shoes for other animals, e.g. oxen
45i-11/00	Farriers' tools and appliances
45i-13/00	Pens for animals while being shod
45i-15/00	Apparatus or use of substances for the care of hoofs
45k	Combating noxious animals or weeds (chemical part 45l; exterminating weeds by soil working 45a-2, 45a-19, 45a-50), trapping of animals (fishing 45h), hunting appliances
45k-1/01 45k-1/02 45k-1/03 45k-1/04 45k-1/05 45k-1/06 45k-1/07 45k-1/10 45k-1/20	Methods and devices for catching and killing insects for flying insects, e.g. fly glasses for creeping insects using attracting illumination except 45k-1/04, 45k-1/06 using blowers (catching insects on the animal body 45h-9) Manual implements, e.g. fly-swatters, pistols (45k-3/02) by electric means (45k-9/02) Insect traps, automatic catching implements by poisoning, narcotising or burning Arrangements connected with buildings, doors, windows, etc.
45k-2/01	Catching insects by adhesive surfaces Fly papers or ribbons (adhesive application 54d-6; machines for manufacturing flycatchers 54f-3/05)
45k-2/02 45k-2/05 45k-2/10 45k-2/11 45k-2/12	Suspending and supporting devices, stands (tacks 70e-7/01)  Adhesive bands for trees  Adhesive bodies, e.g. fly cones  Adhesive bodies with attracting lights  Miscellaneous insect catchers with adhesive surfaces
45k-3/01 45k-3/02 45k-3/05	Devices for collecting insects (collections for educational or display purposes 42n-10/02) in fields and gardens transportable, with means for stripping-off or brushing-off insects, with adhesive surfaces, for fields and gardens (hand implements 45k-1/05) with fans, for fields and gardens (45k-1/04; cotton harvesting 45c-27/71)

	Sprayers for liquids and powders, smoke generators (garden sprayers 45f-26;
	30i-2; 30k-9; 61a-12; 75c)
45k-4/01	Hand-held liquid sprayers (30k-9)
45k-4/02	Injector sprayers for liquids (30k-9; nozzles in general 85g-3)
45k-4/05	Liquid sprayers without pumps, with pressurised gas containers, e.g. air bottles, with gas-generating apparatus
45k-4/10	Liquid sprayers without pumps, portable or transportable
45k-4/20	Motor-driven liquid sprayers
45k-4/25	Details, e.g. nozzles, manifolds, filling devices
45k-4/26	Liquid sprayers for connection to water mains, poison cartridges
45k-4/30	Hand-held powder sprayers (30k-11)
45k-4/32	Portable powder sprayers, e.g. as back-packs
45k-4/33	Transportable powder sprayers
45k-4/35	Motor-driven powder sprayers, also for aircraft (62c-20/02)
45k-4/40	Combined powder and liquid sprayers
45k-4/50	Smoke generators, devices for vaporising and fog generation (12g-3; 30i-2; 45f-10; 62c-20/02; 65a2-73; 72g-7/04; 78d-1/02)
45k-4/51	Fire-throwers (72g-6)
45k-4/52	Apparatus for the destruction of noxious animals by hot water or steam
45k-4/53	Apparatus for the destruction of weeds by steam, chemicals or burning (hand tools for extraction of weeds 45a-2)
45k-4/54	Devices for the extermination of noxious animals in the ground or in materials etc. (30i-2)
45k-5/01	Scaring devices, e.g. scare-crows
45k-5/02	Automatic guns
45k-5/03	Devices for preventing access of insects or other animals, e.g. tree rings (adhesive rings 45k-2/05; protecting trees etc. from animal bites 45f-11/04), insect nets (for furniture 34g-20; for travelling 33d-9/06)
45k-5/04	Extermination of moths (substances therefor 45l)
	Collecting traps
45k-6/01	with tipping platforms, with locking mechanism
45k-6/02	with tipping platforms, without locking mechanism
45k-6/03	with tipping platforms, with openings for entry
45k-6/04	with rotating cylinders or turnstiles
45k-6/05	with devices for throwing the animal to a collecting chamber
45k-6/10	Special bottle-formed traps etc. for birds or water animals
45k-6/20	Traps which are automatically reset by the caught animal
	Box traps
45k 7/01	·
45k-7/01 45k-7/02	with pivoted closure flaps with dropping doors or slides
45k-7/02 45k-7/03	with holed covers (traps with beaters 45k-8/11)
45k-8/01	Foothold traps
45k-8/02	Devices for setting traps
45k-8/10	Break-back traps
45k-8/11	Traps with beaters
45k-8/12	Racket net traps
45k-8/13	Traps with snares
45k-8/14	Squeezing traps
45k-8/15	Tong-like traps
45k-8/16	Piercing traps

45k-9/01	Miscellaneous devices for catching animals (45h-13; slaughtering traps 66a-4/05; caltrops 72g-8)
45k-9/02	Electric traps (for insects 45k-1/06)
45k-9/03	Poisoning devices (45b-3)
45k-10	Guns operated by the victim (68a-36; 74a-29)
451, 44/04	Hunting appliances
45k-11/01	Shooting stands (37e; 45f-16; 72f-15; hunting chairs or stools 34g-6/03; hunting screens 33a-10), beater rattles etc.
45k-11/02	Decoys etc.
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45k	(IPC: A01M) Catching and trapping of animals; Apparatus for the destruction of noxious animals or noxious plants
451- 4/00	· · · · · · · · · · · · · · · · · · ·
<b>45k-1/00</b> 45k-1/02	Stationary means for catching and/or killing insects
45k-1/04	<ul><li>with devices attracting the insects</li><li>using illumination</li></ul>
45k-1/06	. using a suction effect
45k-1/08	. using combined illumination and suction effects
45k-1/10	. Traps
45k-1/12	automatically reset
45k-1/14	. Catching by adhesive surfaces
45k-1/16	Fly papers or ribbons (adhesive application 54d-6; machines for manufacturing
	flycatchers 54f-3/05)
45k-1/18	Adhesive bands or coatings for trees
45k-1/20	. Poisoning, narcotising, or burning insects
45k-1/22 45k-1/24	<ul><li>by electric means</li><li>Arrangements connected with buildings, doors, windows, etc.</li></ul>
45k-3/00	Manual implements, other than sprayers or powder distributors, for
	catching or killing insects, e.g. butterfly nets (nets for protection against
	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20)
45k-3/02	<b>catching or killing insects, e.g. butterfly nets</b> (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters
45k-3/02 45k-3/04	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces
45k-3/02 45k-3/04 <b>45k-5/00</b>	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/04	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/04 45k-5/06	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/04 45k-5/06 45k-5/08	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/04 45k-5/06	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/04 45k-5/06 45k-5/08	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00;
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/04 45k-5/06 45k-5/08	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/04 45k-5/06 45k-5/08 <b>45k-7/00</b>	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c)
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/04 45k-5/06 45k-5/08 <b>45k-7/00</b>	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/06 45k-5/08 <b>45k-7/00</b>	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/04 45k-5/06 45k-5/08 <b>45k-7/00</b>	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems . Sprayers without pumps; Sprayers with compressible bulbs; Sprayers with gas-
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/06 45k-5/08 <b>45k-7/00</b>	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/06 45k-5/08 <b>45k-7/00</b> 45k-7/02 45k-7/04 45k-7/06 45k-7/06	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems . Sprayers without pumps; Sprayers with compressible bulbs; Sprayers with gasgenerating apparatus . Sprayers with pumps . manually operated pumps; pumps driven by vehicle wheels
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/06 45k-5/08 <b>45k-7/00</b> 45k-7/02 45k-7/04 45k-7/06 45k-7/08 45k-7/10 45k-7/10	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems . Sprayers without pumps; Sprayers with compressible bulbs; Sprayers with gasgenerating apparatus . Sprayers with pumps . manually operated pumps; pumps driven by vehicle wheels Portable sprayers
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/06 45k-5/06 45k-5/08 <b>45k-7/00</b> 45k-7/04 45k-7/06 45k-7/08 45k-7/10 45k-7/12 45k-7/14	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems . Sprayers without pumps; Sprayers with compressible bulbs; Sprayers with gasgenerating apparatus . Sprayers with pumps . manually operated pumps; pumps driven by vehicle wheels Portable sprayers Sprayers mounted on wheels
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/06 45k-5/08 <b>45k-7/00</b> 45k-7/04 45k-7/06 45k-7/08 45k-7/10 45k-7/12 45k-7/16	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems . Sprayers without pumps; Sprayers with compressible bulbs; Sprayers with gasgenerating apparatus . Sprayers with pumps . manually operated pumps; pumps driven by vehicle wheels Portable sprayers Sprayers mounted on wheels motor-operated pumps
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/06 45k-5/08 <b>45k-7/00</b> 45k-7/04 45k-7/06 45k-7/06 45k-7/10 45k-7/12 45k-7/12 45k-7/16 45k-7/18	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems . Sprayers without pumps; Sprayers with compressible bulbs; Sprayers with gasgenerating apparatus . Sprayers with pumps . manually operated pumps; pumps driven by vehicle wheels Portable sprayers Sprayers mounted on wheels . motor-operated pumps Sprayer mounted on wheels, carriages or airplanes
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/06 45k-5/08 <b>45k-7/00</b> 45k-7/04 45k-7/06 45k-7/08 45k-7/10 45k-7/10 45k-7/12 45k-7/16 45k-7/18 45k-7/20	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems . Sprayers without pumps; Sprayers with compressible bulbs; Sprayers with gasgenerating apparatus . Sprayers with pumps . manually operated pumps; pumps driven by vehicle wheels . Portable sprayers . Sprayers mounted on wheels . motor-operated pumps . Sprayer mounted on wheels, carriages or airplanes . Details, e.g. manifolds, filling devices
45k-3/02 45k-3/04 <b>45k-5/00</b> 45k-5/02 45k-5/06 45k-5/08 <b>45k-7/00</b> 45k-7/04 45k-7/06 45k-7/06 45k-7/10 45k-7/12 45k-7/12 45k-7/16 45k-7/18	catching or killing insects, e.g. butterfly nets (nets for protection against insects in connection with furniture 34g-20) . Fly-swatters . with adhesive surfaces  Catching insects in fields, gardens, or forests by movable appliances . Portable appliances . Wheeled machines, with means for stripping-off or brushing-off insects . with adhesive surfaces . with fans  Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this sub-class (spraying of liquid fertilisers 45b-23/00; for disinfectants 30i; for therapeutic or cosmetic purposes 30k; for fire-fighting 61a; spray guns 75c) . Injector sprayers . for connection to water supply systems . Sprayers without pumps; Sprayers with compressible bulbs; Sprayers with gasgenerating apparatus . Sprayers with pumps . manually operated pumps; pumps driven by vehicle wheels Portable sprayers Sprayers mounted on wheels . motor-operated pumps Sprayer mounted on wheels, carriages or airplanes

45k-9/00 45k-9/02 45k-9/04 45k-9/06 45k-9/08	Special adaptations or arrangements of powder-spraying apparatus for purposes covered by this subclass (for therapeutic or cosmetic purposes 30k-11) . hand-operated . Portable sprayers . mounted on wheels . motor-operated
45k-9/10	mounted on wheels, carriages or airplanes
45k-11/00	Combined liquid- and powder-spraying apparatus
45k-13/00	Fumigators, mechanical part (chemical part 78d-1/02); Apparatus for distributing gases (smoke generators in general 78d-1/02)
45k-15/00	Flame-throwers (as weapons 72g-6)
45k-17/00	<b>Apparatus for the destruction of vermin in soil or in foodstuffs</b> (apparatus for disinfection and sterilisation in general 30i-2)
45k-19/00	Apparatus for the destruction of noxious animals, other than insects, by hot water, steam, hot air, or electricity
<b>45k-21/00</b> 45k-21/02 45k-21/04	Destruction of unwanted vegetation, e.g. weeds (chemical aspects 45I-5/00; weed control on permanent ways 19b-11/00)  . Apparatus for mechanical destruction  . Apparatus for destruction by steam, chemicals, burning, or electricity
45k-23/00 45k-23/02 45k-23/04 45k-23/06 45k-23/10 45k-23/12 45k-23/12 45k-23/16 45k-23/18 45k-23/20 45k-23/22 45k-23/24 45k-23/26 45k-23/28 45k-23/30 45k-23/32 45k-23/36 45k-23/36 45k-23/36 45k-23/36 45k-23/36	Traps for animals  Collecting-traps  with tipping platforms  with approaches permitting entry only with rotating cylinders or turnstiles  with devices for throwing the animal to a collecting chamber  Other traps automatically reset  Box traps  with pivoted closure flaps  with dropping doors or slides  with dropping covers  Jaw or like spring traps  of the double-jaw or pincer type  Jaw trap setting-devices  Break-back traps  Racket net traps  with arrangements for piercing the victim Electric traps
45k-25/00	Devices for dispensing poison for animals (for insects 45k-1/20)
45k-27/00	Guns operated by the victim
<b>45k-29/00</b> 45k-29/02	Scaring devices, e.g. bird-scaring apparatus . with automatic guns (locks with detonating alarm 68a-36; detonating alarms for theft prevention 74a-29)
<b>45k-31/00</b> 45k-31/02 45k-31/04 45k-31/06	Hunting appliances . Shooting stands (folding seats 34g-6) . Beater rattles . Decoys
<b>45</b> I	Preservation of animals and plants, pesticides and herbicides

## 45I Preservation of animals and plants, pesticides and herbicides 45I-1/01 Preservation of corpses of animals, or parts of animals and humans (30i-3; 30i-9)

451-9/02

451-9/04

451-9/06

45I-1/02	Preservation of plants (45e-21)
45I-1/03	Chemical substances for keeping cut flowers fresh (devices 45f-6/05)
45I-1/04	Chemical substances for influencing the growth of trees and other plants, e.g. grafting wax, injections (fertilisers 16)
451-2	Mushroom cultures, composition of agricultural soil (devices 45f-1; compost for culture of mushrooms 16)
45I-3/01	Chemical substances and methods for the destruction of noxious animals or noxious plants (devices 45k)
451-3/02	Smoke-generating substances
451-3/03	Vaporisable substances
451-3/04	Substances of plant origin (alkaloids)
451-3/05	Substances for exterminating animals that damage textiles (devices 34I-30/05)
45I-3/06	Substances for exterminating rodents
451-3/07	Insect adhesives (devices, e.g. adhesive rings 45k-2/05)
45I-3/08	Deterrents
451-4	Seed dressing agents in general, except 45I-4/01 – 45I-4/03 (devices for dressing seed 45b-1/50; coating of seed 45b-1/01)
451-4/01	Dry seed dressing agents
451-4/02	Wet seed dressing agents
451-4/03	Humid seed dressing agents
451-4/04	Substances for stimulating germination (substances for stimulating growth of plants 16)
45l-5	Substances for exterminating weeds and plants (devices 45k)
451	(IPC: A01N) Preserved animals or plants or parts thereof; Chemical treatment e.g. disinfection, of soil or living plant material; Pesticides or herbicides
<b>Preservation</b>	of animals or plants
<b>45I-1/00</b> 45I-1/02	Preserved corpses of human or other animals, or parts thereof (embalming corpses or parts thereof 30i-9; preservation of foodstuffs 53c) . Preserved living parts
<b>45I-3/00</b> 45I-3/02 45I-3/04	Preserved plants or parts thereof (preservation of foodstuffs 53c)  . Keeping cut flowers fresh chemically (apparatus 45f-5/06)  . Grafting-wax
Chemical trea	atment of plants
451-5/00	Chemical treatment of plants or parts thereof to influence or inhibit growth (treatment of seeds, roots, or the like 45I-21/00; treatment of plants with carbonic acid 45f-7/02; fertilisers 16)
Treatment of soil	
<b>45I-7/00</b> 45I-7/02 45I-7/04	Chemical treatment of soil (methods of fertilising 45b-21/00)  . Adding substances to improve the physical structure of agricultural soil  . Disinfection; Sterilisation (steam sterilisation 45f-11/00)
Pesticides; Herbicides	
451-9/00	Use of organic substances as pesticides or herbicides or as the active ingredient of pesticidal compositions; Pesticidal or herbicidal compositions containing organic pesticides (preparation of the active substances 12k – 12q)

. containing different active constituents in admixture

Hydrocyanic acid

than simple chemical substances isolated from these materials

Mineral oils; Tar oils; Tar; Distillates, extracts, or conversion products thereof, other

451-23/00	Other chemical features of the destruction of noxious animals or noxious plants
<b>45I-21/00</b> 45I-21/02 45I-21/04	Treatment, e.g. disinfection, of seeds, roots, or the like for growing (disinfection in general 30i)  Treatment of seed to influence germination or growth Treatment with organic mercury compounds
<b>45I-19/00</b> 45I-19/02	Destruction of weeds . with organic substances
45I-17/00 45I-17/02 45I-17/04 45I-17/06 45I-17/10 45I-17/12 45I-17/14	Physical form and method of application of pesticides or herbicides  . Dispersing the active substance in air (disinfecting air 30i-5/01)  . by heating, e.g. burning combustible mixtures (smoke-generating substances 78d)  with the active substance in the form of foam  with the active material incorporated in or on carriers, diluents, or solvents  with the active material emulsified or dispersed in liquid  carriers in sheet form  Combinations of the active substance with substances to attract the pest
451-15/00	Pesticides or herbicides with micro-organisms for the control of harmful organisms
45I-13/00	Pesticidal or herbicidal compositions containing both organic and inorganic pesticides or herbicides
45I-11/02 45I-11/04 45I-11/06 45I-11/08	12n) . containing different active constituents in admixture . Copper; Copper compounds . Sulphur; Sulphur compounds . Arsenic compounds
451-11/00	Use of inorganic substances as pesticides or herbicides or as the active ingredient of pesticidal or herbicidal compositions; Pesticidal or herbicidal compositions containing inorganic, including oxides of carbon, pesticides or herbicides (preparation of the active substances 12i –
45I-9/26 45I-9/28 45I-9/30 45I-9/32 45I-9/34 45I-9/36 45I-9/38	<ul> <li>. Phenols; Salts thereof</li> <li>. with oxygen as the hetero element in a ring</li> <li>. Halohydrocarbons</li> <li>. Hexachlorocyclohexane</li> <li>. 2-Aryl-di- or tri-halogen-1.1.(1) ethane or ethene or derivatives thereof, e.g. D.D.T.</li> <li>. Organic phosphorus compounds</li> <li>. Organic mercury compounds (for disinfecting seeds 45I-21/04)</li> </ul>
45I-9/22 45I-9/24	<ul> <li>. with nitrogen as the hetero element in a ring</li> <li>. Organic oxygen compounds (45I-9/02, 45I-9/08 – 45I-9/22, 45I-9/36, 45I-9/38 take precedence)</li> </ul>
45I-9/16 45I-9/18 45I-9/20	<ul> <li>. Sulphonamides</li> <li>. Organic thiocyanates or isothiocyanates</li> <li>. Organic nitrogen compounds (45I-9/02, 45I-9/06 – 45I-9/18, 45I-9/36, 45I-9/38 take precedence)</li> </ul>
45I-9/12 45I-9/14	<ul> <li>. Tobacco; Nicotine; Nicotine compounds</li> <li>. Organic sulphur compounds (45I-9/36, 45I-9/38 take precedence)</li> <li>. with the sulphur attached to oxygen, e.g. sulphoxides, sulphones, sulphonic or sulphonic acids</li> </ul>
45I-9/08 45I-9/10	Pulverised plants or plant material; Extracts thereof, e.g. pyrethrum or derris preparations  Tabagas Niceting Niceting compounds

45m-15/08

45m-17/00

34b-37/00)

45m-17/02

45m (IPC: A23N) Machines or apparatus for treating harvested fruit, vegetables in bulk, not provided for elsewhere; Apparatus for preparing animal feeding-stuffs (machines for cutting-up straw or fodder 45e-29/00, 45e-31/00) Treating harvested fruit or vegetables 45m-1/00 Machines or apparatus for extracting juice (cooking vessels for extracting juice 34b-27/04) 45m-1/02 . combined with disintegrating or cutting 45m-3/00 Machines for stoning fruit in bulk 45m-3/02 . with feeder-drums 45m-3/04 . with endless feeder-belts 45m-3/06 . with feeder-tables 45m-3/08 . for both splitting and stoning 45m-3/10 . for stoning fruit with small pips, e.g. raisins 45m-3/12 . for coring fruit 45m-3/14 . for removing seed-containing sections from cut fruit 45m-5/00 Machines for hulling, husking, or cracking nuts 45m-5/02 . with reciprocating tools 45m-5/04 . with rotary tools 45m-5/06 . . with rotary tools acting by centrifugal effect 45m-5/08 . for removing fleshy or fibrous hulls of nuts 45m-5/10 . for skinning nut kernels 45m-7/00 Machines for peeling vegetables or fruit in bulk (peeling machines of the household type 34b-17/00) . for peeling potatoes or apples 45m-7/02 45m-7/04 . for peeling asparagus 45m-7/06 . for stringing or cutting beans 45m-7/08 . for peeling fruit and removing seed-containing sections 45m-7/10 . Driving mechanisms 45m-11/00 Removing pith from stems 45m-13/00 Machines for washing potatoes, mangolds, apples, or like fruit (washing or drying grain 50a; drying arrangements 82a) 45m-15/00 Machines for other treatment of fruits or vegetables in bulk for human purposes (treatment of coffee 53d; treatment of cocoa 53f) 45m-15/02 . for stemming, piercing or stripping fruit; Removing sprouts of potatoes 45m-15/04 . for drying, roasting, or blanching fruits, e.g. nuts (drying machines in general 82a; devices for toasting coffee etc. 82a-30/50 – 82a-30/52) 45m-15/06 . Devices for topping fruit or vegetables

. Devices for other treatment of fruit, e.g. marking, maturing, polishing

Apparatus specially adapted for preparing animal feeding-stuffs

. Fodder mashers (household implements for mashing potatoes or other foodstuffs