

9 Bristle products**9a Manufacture of bristle products****9a (IPC: A46D) Manufacture of brushes****9b Brushes and paint brushes for various uses****9b (IPC: A46B) Brushes; Paint brushes; Brooms****9c Handle and stick fastenings for brushes, scrubbers and brooms****9c (IPC: A46C) Handles and their attachment****9c (IPC: B25G) Handles for hand implements****9a Manufacture of bristle products**

- 9a-1 Preparation and cleaning of bristles: combing, mixing, straightening, sorting, washing, drying, sharpening
- 9a-2 Manufacture of uniform bunches for bristle products, bristle shakers
- 9a-3 Fastening of bristles on the brushes
- 9a-4 Machines for drilling the brushes and for plugging, drawing in and fastening of the bristles
- 9a-5 Fastening of the bristles in paint brushes, bases
- 9a-6 Manufacture of paint brushes
- 9a-7 Paint-brush band holders, paint brushes and brushes with adjustable bristle length
- 9a-8 Broom making, fastening of bristles on the brooms, pressing devices for birch brooms
- 9a-9 Machines for trimming the bristles as well as for cleaning the ready, unused brushes, paint brushes and brooms of adhering bristles, dust, etc., trimming and finishing of quills (cleaning used brushes 9b-14)
- 9a-10 Manufacture of artificial bristles

9a (IPC: A46D) Manufacture of brushes**9a-1/00 Bristles; Selection of materials for bristles**

- 9a-1/02 . Making artificial bristles (making artificial bristles in general 29a, 29b)
- 9a-1/04 . Preparing bristles
- 9a-1/045 . . Cleaning, e.g. washing, drying
- 9a-1/05 . . Splitting; Pointing
- 9a-1/055 . . Combing; Mixing; Sorting
- 9a-1/06 . . Machines or apparatus for cutting bristles
- 9a-1/08 . Preparing uniform tufts of bristles
- 9a-1/10 . Vibrating devices for arranging bristles

9a-3/00 Preparing brush bodies

- 9a-3/02 . Machines for drilling bodies
- 9a-3/04 . Machines for inserting bristles in bodies (fixing of bristles 9b)
- 9a-3/05 . . for fixing the bristles between wires, tapes, or the like
- 9a-3/06 . Machines for both drilling bodies and inserting bristles
- 9a-3/08 . Parts of brush-making machines

9a-5/00 Devices for preparing quills for use as carriers for bristles**9a-7/00 Pressing devices for making brooms composed of brushwood or the like****9a-9/00 Machines for finishing brushes, paint brushes or brooms**

- 9a-9/02 . Cutting; Trimming
- 9a-9/04 . Cleaning
- 9a-9/06 . Impregnating

9b	Brushes and paint brushes for various uses
9b-1	Hat brushes, clothes brushes, furniture brushes, polishing brushes and carpet brushes
9b-2	Barrel brushes, scouring brushes, glass and bottle brushes, scrubbers (machine for the brushing out of bottles and drinking vessels 64b-1, 64b-5)
9b-3	Leather greasing and shoe brushes (shoe polishing machines 34c-19; hand shoe polishing implements except brushes 34c-20)
9b-4	Hair brushes, skin brushes and combing brushes [brush combs]
9b-5	Tooth brushes and nail brushes
9b-6	Wire brushes
9b-7	Round brushes for miscellaneous uses
9b-8	Brushes with cases
9b-9	Collapsible brushes, pocket brushes
9b-10	Shaving brushes
9b-11	Ruling brushes, drawing brushes and painting brushes
9b-12	Brushes and paint brushes with liquid containers and feed
9b-13	Miscellaneous bristle goods (electric brushes for treating sick persons 30f, 8; electric brushes for upholstered furniture 34c, 7; polishing [wax] brushes 34c, 8)
9b-14	Cleaning of used brushes and paint brushes (cleaning of unused brushes 9a, 9)

9b	(IPC: A46B) Brushes; Paint brushes; Brooms
9b-1/00	Brush bodies and bristles moulded as a unit
9b-3/00	Brushes characterised by the way in which the bristles are fixed or joined in or on the brush body or carrier
9b-3/02	. by pitch, resin, cement, or other adhesives
9b-3/04	. by mouldable materials, e.g. metals, cellulose derivatives, plastics
9b-3/06	. by welding together bristles made of metal wires or plastic materials
9b-3/08	. by clamping
9b-3/10	. . into rings or the like
9b-3/12	. . . specially adapted for paint-brushes
9b-3/14	. . . specially adapted for street-cleaning or rail-cleaning brooms
9b-3/16	. by wires or other anchoring means, specially for U-shaped bristle tufts
9b-3/18	. the bristles being fixed on or between belts or wires
9b-3/20	. the bristles being fixed or joined in rubber bodies, e.g. in soft rubber
9b-3/22	. rubber bristles being fixed in or on brush bodies
9b-5/00	Brush bodies; Handles integral with brushware
9b-5/02	. specially shaped for holding by the hand
9b-5/04	. shaped as gloves or finger-stalls
9b-5/06	. in the form of tapes, chains, flexible shafts, springs, or the like
9b-7/00	Bristle carriers arranged in the brush body
9b-7/02	. in an expanding or articulating manner
9b-7/04	. interchangeably
9b-7/06	. movably during use
9b-7/08	. . as a rotating disc
9b-7/10	. . as a rotating cylinder
9b-9/00	Arrangements of the bristles in the brush body
9b-9/02	. Position or arrangement of bristles in relation to surface of the brush body, e.g. inclined, in rows, in groups
9b-9/04	. . for toothbrushes
9b-9/06	. Arrangement of mixed bristles or tufts of bristles, e.g. wire, fibre, rubber
9b-9/08	. Supports or guides for bristles
9b-9/10	. . Adjustable supports
9b-9/12	. . Non-adjustable supports

9b-11/00	Brushes with reservoir or other means for applying substances, e.g. paints, pastes, water (driven brush bodies 9b-13/00)
9b-11/02	. with substance discharged from reservoir by pressure
9b-11/04	. with substance discharged from reservoir otherwise than by pressure
9b-11/06	. connected to supply pipe
9b-11/08	. with heating means
9b-13/00	Brushes with driven brush bodies
9b-13/02	. power-driven
9b-13/04	. . with reservoir or other means for supplying substances
9b-13/06	. . . with brush driven by the supplied medium
9b-13/08	. hand-driven
9b-15/00	Other brushes; Brushes with additional arrangements
9b-17/00	Accessories for brushes
9b-17/02	. Devices for holding brushes in use
9b-17/04	. Protective covers for the bristles
9b-17/06	. Devices for cleaning brushes after use
9b-17/08	. Other accessories, e.g. scrapers, rubber buffers for preventing damage to furniture

9c **Handle and stick fastenings for brushes, scrubbers and brooms**
(for tools and work implements of general use 87d; for paint brushes 9a-6)

9c-1	Handle fastenings by means of clamp rings
9c-2	Handle fastenings by means of grippers, etc.
9c-3	Handle fastenings by means of screwing
9c-4	Handle fastenings by means of wedging
9c-5	Handle fastenings by means of stays
9c-6	Miscellaneous handle fastenings
9c-7	Swivelling and reversible handles
9c-8	Handle elongators

9c **(IPC: A46C) Handles and their attachment**

9c-1/00 **Handles, broomsticks**

9c-1/02	. with joints
9c-1/04	. swivelling or reversible
9c-1/06	. extension parts, telescopic handles

9c-3/00 **Attaching handles or sticks to brush bodies**

9c-3/02	. with contracting sockets holding the handle or stick
9c-3/04	. with threaded sockets
9c-3/06	. with wedges
9c-3/08	. with clamps holding the brush body
9c-3/10	. by pressing into rubber sockets etc.
9c-3/12	. with attachment means passing through the brush body and the stick

9c **(IPC: B25G) Handles for hand implements** (attaching the blades or the like to handles of hand tools for soil working 45a-1/22; handles of hand implements for harvesting 45c-1/14; handles integral with brushware 9b)

Note:

This subclass provides for handles for hand implements, in general, and also for those handles for hand implements for particular purposes which are not provided for elsewhere, e.g. in 34i-95/02, 34b-45/00, 42r4

9c-1/00 **Handle constructions**

9c-1/02	. flexible
9c-1/04	. telescopic; extensible; sectional

9c-1/06	. reversible or adjustable for position
9c-1/08	. with provision for storing tool elements
9c-1/10	. characterised by material or shape
9c-3/00	Attaching handles to the implements
9c-3/02	. Socket, tang, or like fixings (9c-3/34 takes precedence)
9c-3/04	. . with detachable or separate socket pieces (9c-3/12 takes precedence)
9c-3/06	. . with multiple socket, e.g. T-socket (9c-3/12 takes precedence)
9c-3/08	. . with dovetail or other groove (9c-3/12 takes precedence)
9c-3/10	. . with elastic, taper, or other self-grip socket or tang (9c-3/12 takes precedence)
9c-3/12	. . Locking and securing devices
9c-3/14	. . . comprising barbs or teeth
9c-3/16	. . . comprising bayonet joints
9c-3/18	. . . comprising catches or pawls
9c-3/20	. . . comprising clamping or contracting means acting concentrically of the handle or socket
9c-3/22 Chucks
9c-3/24	. . . comprising clamping or contracting means acting transversely of the handle or socket
9c-3/26	. . . comprising nails, screws, bolts, or pins traversing or entering the socket
9c-3/28	. . . comprising wedges, keys, or like expanding means
9c-3/30	. . . comprising screwed sockets or tangs
9c-3/32	. . . in association with, or including, tang, bolt, or other member passing axially through whole length of handle
9c-3/34	. by pressing the handle on the implements; using cement or molten metal, e.g. casting, moulding; by welding or the like
9c-3/36	. Lap joints; Riveted, screwed, or like joints (socket, tang, or like fixings 9c-3/02)
9c-3/38	. Hinged, pivoted, swivelling, or folding joints