15	Printing, ruling machines, typewriters, stamps
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15a	Elements, implements and machines for manufacturing and distributing type
15b	Processes for the manufacture and reproduction of printing forms
15c	Processes for the reproduction of printing plates
15d	High-speed presses, rotary presses, office printing machines and platen presses; printing processes insofar as connected with the use of special machines
15e	Automatic folding machines for paper sheets, auxiliary machines related to printing, especially perforating, bronzing, edging; automatic sheet feeding devices for printing and other machines
15f	Ruling machines
15g	Typewriters and accessories
15h	Hand stamps, stamping and numbering mechanisms
15i	Duplicating devices; duplicating processes, insofar as they are dependent upon the use of special equipment
15k	Printing and duplicating processes, including colour relief printing; special printed products; letter spacing
151	Materials for graphic printing
15a	Elements, implements and machines for manufacturing and distributing type
15a	distributing type Elements and implements for hand-setting
15a-1	distributing type Elements and implements for hand-setting Types for book printing
15a-1 15a-2	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing
15a-1 15a-2 15a-3	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34)
15a-1 15a-2 15a-3 15a-4	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture
15a-1 15a-2 15a-3 15a-4 15a-5	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks Cleaning of type cases and the like
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks Cleaning of type cases and the like Composing sticks and rules for type matter
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks Cleaning of type cases and the like Composing sticks and rules for type matter Galleys, column galleys and column locks for type matter
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9 15a-10	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks Cleaning of type cases and the like Composing sticks and rules for type matter Galleys, column galleys and column locks for type matter Hand implements for typesetters
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9 15a-10 15a-11	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks Cleaning of type cases and the like Composing sticks and rules for type matter Galleys, column galleys and column locks for type matter Hand implements for typesetters Forms, lines, and the like, for rotary printing of "latest news"
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9 15a-10	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks Cleaning of type cases and the like Composing sticks and rules for type matter Galleys, column galleys and column locks for type matter Hand implements for typesetters
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9 15a-10 15a-11	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks Cleaning of type cases and the like Composing sticks and rules for type matter Galleys, column galleys and column locks for type matter Hand implements for typesetters Forms, lines, and the like, for rotary printing of "latest news"
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9 15a-10 15a-11	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks Cleaning of type cases and the like Composing sticks and rules for type matter Galleys, column galleys and column locks for type matter Hand implements for typesetters Forms, lines, and the like, for rotary printing of "latest news" Musical type setting
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9 15a-10 15a-11 15a-12	distributing typeElements and implements for hand-settingTypes for book printingType matter spacingRules, including brass rules for type matter (15a-34)Type matter whites: sticks, furnitureChases for type matterLocking-up devices for type matterType cases, composing frames, composing racksCleaning of type cases and the likeComposing sticks and rules for type matterGalleys, column galleys and column locks for type matterHand implements for typesettersForms, lines, and the like, for rotary printing of "latest news"Musical type settingTypesetting and distributing machines
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9 15a-10 15a-11 15a-12	distributing typeElements and implements for hand-settingTypes for book printingType matter spacingRules, including brass rules for type matter (15a-34)Type matter whites: sticks, furnitureChases for type matterLocking-up devices for type matterType cases, composing frames, composing racksCleaning of type cases and the likeComposing sticks and rules for type matterGalleys, column galleys and column locks for type matterHand implements for typesettersForms, lines, and the like, for rotary printing of "latest news"Musical type settingHand-setting apparatus
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9 15a-10 15a-11 15a-12 15a-13 15a-14	distributing typeElements and implements for hand-settingTypes for book printingType matter spacingRules, including brass rules for type matter (15a-34)Type matter whites: sticks, furnitureChases for type matterLocking-up devices for type matterType cases, composing frames, composing racksCleaning of type cases and the likeComposing sticks and rules for type matterHand implements for typesettersForms, lines, and the like, for rotary printing of "latest news"Musical type settingHand-setting apparatusSetting machines for setting with ready-made type and details
15a-1 15a-2 15a-3 15a-4 15a-5 15a-6 15a-7/01 15a-7/02 15a-8 15a-9 15a-10 15a-11 15a-12 15a-12	distributing type Elements and implements for hand-setting Types for book printing Type matter spacing Rules, including brass rules for type matter (15a-34) Type matter whites: sticks, furniture Chases for type matter Locking-up devices for type matter Type cases, composing frames, composing racks Cleaning of type cases and the like Composing sticks and rules for type matter Galleys, column galleys and column locks for type matter Hand implements for typesetters Forms, lines, and the like, for rotary printing of "latest news" Musical type setting Hand-setting apparatus Setting machines for setting with ready-made type and details Distributing machines for setting with ready-made type and details

15a-17/02 15a-17/03	Matrix setting and line-casting machines with toothed distributor bars Matrix setting and line-casting machines with matrices guided on wires
15a-18/01 15a-18/02 15a-18/03 15a-18/04 15a-18/05 15a-18/06 15a-18/07	Matrix setting and line-casting machines with magazine equipment, general Magazine receiver hoppers for matrix setting and line-casting machines Magazine turning devices for matrix setting and line-casting machines Magazine changing devices for matrix setting and line-casting machines Matrix locking devices in the magazines of matrix setting and line-casting machines Matrix reject funnels for matrix setting and line-casting machines Hand matrix magazines for matrix setting and line-casting machines
15a-19/01 15a-19/02 15a-19/03 15a-19/04 15a-19/05	Setting devices for matrix setting and line-casting machines, general Matrix releasing devices for matrix setting and line casting machines Space releasing devices for matrix setting and line-casting machines Matrix assembly devices for matrix setting and line-casting machines Keyboards for matrix setting and line-casting machines
15a-20/01 15a-20/02 15a-20/03 15a-20/04 15a-20/05	Feeding devices for matrix setting and line-casting machines, general Matrix line transfer slides in matrix setting and line-casting machines Matrix feeding intermediate channel of matrix setting and line-casting machines Casting slides for the matrix line for matrix setting and line-casting machines Distributing devices for the matrices in matrix setting and line-casting machines
15a-21/01	Casting equipment for matrix setting and line-casting machines, general
15a-21/02	Casting pots of matrix setting and line-casting machines
15a-21/03	Casting pumps for matrix setting and line-casting machines
15a-21/04	Feeding devices for casting pots of matrix setting and line-casting machines
15a-21/05	Casting mouth elements of line-casting pots of matrix setting and line-casting machines
15a-21/06	Casting mouth wipers for matrix setting and line-casting machines
15a-21/07	Heating devices for the casting pots of matrix setting and line-casting machines
15a-21/10	Casting disks for matrix-setting and line-casting machines
15a-21/10 15a-21/11	Casting disks for matrix-setting and line-casting machines Moulds for the casting disks of matrix setting and line-casting machines
15a-21/11	Moulds for the casting disks of matrix setting and line-casting machines
15a-21/11 15a-21/12 15a-21/13 15a-21/14	Moulds for the casting disks of matrix setting and line-casting machines Casting disk slides of matrix setting and line-casting machines Adjusting devices for the casting disk slides of matrix setting and line-casting machines Matrix aligning devices on casting disk slides of matrix setting and line-casting machines
15a-21/11 15a-21/12 15a-21/13	Moulds for the casting disks of matrix setting and line-casting machines Casting disk slides of matrix setting and line-casting machines Adjusting devices for the casting disk slides of matrix setting and line-casting machines Matrix aligning devices on casting disk slides of matrix setting and line-casting
15a-21/11 15a-21/12 15a-21/13 15a-21/14	Moulds for the casting disks of matrix setting and line-casting machines Casting disk slides of matrix setting and line-casting machines Adjusting devices for the casting disk slides of matrix setting and line-casting machines Matrix aligning devices on casting disk slides of matrix setting and line-casting machines
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-24	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Matrices for matrix setting and line-casting machines</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-24	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Matrices for matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-24 15a-25/01	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Matrices for matrix setting and line-casting machines</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-23 15a-24 15a-25/01 15a-25/02	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Matrices for matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-23 15a-24 15a-25/01 15a-25/02	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Matrices for matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> <li>Matrix and space cleaning devices of matrix setting and line-casting machines</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-23 15a-24 15a-25/01 15a-25/02 15a-25/03	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> <li>Matrices for matrix setting and line-casting machines</li> <li>Matrix and space cleaning devices of matrix setting and line-casting machines</li> <li>Monotype casting and composing machines</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-23 15a-24 15a-25/01 15a-25/02 15a-25/03	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> <li>Matrix and space cleaning devices of matrix setting and line-casting machines</li> <li>Monotype casting and composing machines, types of machines</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-24 15a-25/01 15a-25/02 15a-25/03 15a-26/01 15a-26/02	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> <li>Matrix and space cleaning devices of matrix setting and line-casting machines</li> <li>Monotype casting and composing machines, types of machines</li> <li>Matrix cases for monotype casting and composing machines and adjustments</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-23 15a-25/01 15a-25/02 15a-25/03 15a-26/02 15a-26/02 15a-26/03	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> <li>Matrix and space cleaning devices of matrix setting and line-casting machines</li> <li>Monotype casting and composing machines, types of machines</li> <li>Matrix cases for monotype casting and composing machines</li> <li>Type-casting devices for monotype casting and composing machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> </ul>
15a-21/11 15a-21/12 15a-21/13 15a-21/14 15a-21/20 15a-22 15a-23 15a-23 15a-25/01 15a-25/02 15a-25/03 15a-26/03 15a-26/03 15a-26/04	<ul> <li>Moulds for the casting disks of matrix setting and line-casting machines</li> <li>Casting disk slides of matrix setting and line-casting machines</li> <li>Adjusting devices for the casting disk slides of matrix setting and line-casting machines</li> <li>Matrix aligning devices on casting disk slides of matrix setting and line-casting machines</li> <li>Devices for casting spares, etc., with matrix setting and line-casting machines</li> <li>Justifying devices for matrix setting and line-casting machines</li> <li>Ejectors and dressing devices for the cast lines of matrix setting and line-casting machines</li> <li>Miscellaneous particular elements of matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> <li>Spaces for matrix setting and line-casting machines</li> <li>Matrix and space cleaning devices of matrix setting and line-casting machines</li> <li>Monotype casting and composing machines, types of machines</li> <li>Matrix cases for monotype casting and composing machines</li> <li>Type-casting devices for monotype casting and composing machines</li> <li>Type-line assemblers for monotype casting and composing machines</li> </ul>

15a-28 15a-29	Record tape punching machine Special elements common to composing machines of all kinds, e.g. keyboard arrangements, control devices using record tapes (15a-19/05; 15a-24; 15a-26/05)
15a-30 15a-31 15a-32 15a-33 15a-34 15a-35 15a-36	Type-castingMatrices for type-casting, manufacture and useHand-casting devices for type-castingType-casting machinesImplements and machines for grinding and finishing typeProduction and preparation of type matter rulesSpace cutters for making spaces and type matter justificationMiscellaneous in the art of making and distributing of type
15b	Processes for the manufacture and reproduction of printing forms (photomechanical reproduction 57d)
15b-1/01 15b-1/02 15b-1/03 15b-1/04 15b-1/05 15b-1/06	Processes for the manufacture of printing forms and printing designs in general by etching (48a-16; 48a-163/00; 48d-1; 48d1-1/00; 57d-2; 75b-10) by engraving (75a-6 – 75a-12; 75b-10) by transferring, opalographic processes by elevating or recessing the design by using the design as a printing form (planographic form) (15k-7/03) by moulding the design
15b-2/01 15b-2/02 15b-2/03 15b-3	Processes for the reproduction and duplication of printing surfaces by stereotyping (15c; 15I-9) by stamping synthetic substances, celluloid by electrotyping (48a-7) Processes for the manufacture of multicolour printing forms (57d-3)
15b-4/01 15b-4/02 15b-4/03 15b-5 15b-6	Processes for the manufacture of printing forms for special purposes or with special auxiliary media Making printing forms for negative printing, stencil printing (57d-1; 57d-4) Making printing forms for amalgam printing Making printing forms by means of typewriters Processes for the production of printing forms upon non-planar plates, especially cylinders, also for printing on textiles (8c-9; 57d-5) Processes for graining printing forms (57d-6; 57d-7; devices 67a-23)
15c	<b>Processes for the reproduction of printing plates</b> (by electrotyping 48a-7)
	Stereotyping
15c-1/01 15c-1/02 15c-1/10 15c-1/20 15c-1/21	Manufacture of stereotype matrices by means of hydraulic presses by means of toggle presses by means of moving brushes by means of miscellaneous devices Devices for drying or moistening matrices
15c-2/01 15c-2/02 15c-2/03	Equipment for the casting of flat stereotypes semicylindrical stereotypes in horizontal moulds semicylindrical stereotypes in vertical molds

15c-2/04 tubular stereotypes

15c-2/05 15c-2/06 15c-2/07 15c-2/08 15c-2/09 15c-2/10 15c-2/11 15c-2/20	Casting machines with several cores, i.e. chills Casting machines with pumps for conveying the stereotype metal into the moulds Closures for the melting pots and operators therefor (15c-2/08) Devices for opening and closing moulds and melting pot outlets (15c-2/07) Devices for cooling moulds Melting furnaces Matrix locks Miscellaneous
	Devices for the processing of
15c-3/01 15c-3/02 15c-3/03	flat stereotypes curved stereotypes Devices for bending stereotype plates
15c-4 15c-5	Rubber-covered pantographs (42a-16) Miscellaneous devices for the manufacture and reproduction of printing forms (15b; 15k-10/01; 57d-5/01)
15d	High-speed presses, rotary presses, office printing machines and platen presses; printing processes insofar as connected with the use of special machines
15d-1/01 15d-1/02 15d-2 15d-3	High-speed cylinder presses and components (15d-27 – 15d-36) Stop cylinder high-speed presses Oscillating cylinder presses (15d-3) High-speed cylinder presses with constant rotation impression cylinder Double high-speed presses (15d-1/02)
	High-speed cylinder presses with fixed cylinder and reciprocating bed for perfecting
15d-4/01 15d-4/02	for sheets for webs
15d-5/01	High-speed cylinder presses with fixed bed and travelling cylinder
15d-5/10	High-speed cylinder presses with several superposed or successive fixed beds and travelling cylinder
15d-5/20 15d-5/30	High-speed cylinder presses with oppositely moved bed and cylinder High-speed cylinder presses in which the cylinders revolve around fixed, flat printing forms
	High-speed cylinder presses for multicolour printing
15d-6/01	General
15d-6/02	with solid or liquid ink pads
15d-6/03	with printing forms having movable or recessed inserted forms
15d-7/01	Hand presses for planographic printing
15d-7/02	Rubber printing frames in hand presses for planographic printing
15d-8/01	High-speed presses for planographic printing, general
15d-8/02	High-speed presses for rubber printing (15d-17/20)
15d-8/05	High-speed presses for phototype printing
15d-8/10	Dampeners in high-speed planographic presses (15d-20)
15d-9/01	Hand and high-speed presses for intaglio printing
15d-9/02	Wiping devices for hand and high-speed intaglio presses (15d-21/11)
	Bed moving devices for high-speed cylinder presses
15d-10/01	by means of racks and alternately, counter-rotating pinions
15d-10/02	by means of racks and one pinion continuously rotating in the same direction
15d-10/03	by means of a crank drive

15d-10/04	by means of a motor or traction mechanism engaging the bed
15d-10/05	Devices for reversing the bed of high-speed cylinder presses at the ends of the strokes
15d-10/06	Air buffers for braking the bed of high-speed cylinder presses at the ends of the strokes
15d-11/01	Devices for driving the impression cylinder in high-speed cylinder presses
15d-11/02	Devices for arresting the impression in high-speed cylinder presses
15d-11/03	Devices for breaking the impression cylinder in high-speed cylinder presses
15d-11/04	Devices for stopping and starting the impression cylinder in relation to the base of high-speed cylinder presses
15d-11/10	Structure and supports for the impression cylinders in high-speed cylinder presses
15d-11/11	Impression cylinder packing (15d-19/15)
	Structure and drives for the following devices attached to the impression cylinders of high-speed cylinder presses
15d-12/01	Clamp grippers
15d-12/02	Suction grippers
15d-12/03	Dotting devices in high-speed cylinder presses
15d-12/04	Conveyor belts, etc., with grippers for conveying the sheets during the printing process of high-speed cylinder presses
15d-12/10	Miscellaneous related to the gripping devices of high-speed cylinder presses
15d-13/01	Printing machines with devices for treating the sheets before printing
15d-13/02	Printing machines with devices for drying and warming sheets before and after printing (15d-26/22)
15d-13/09	Printing machines with devices for making the print glossy
15d-13/10	Frame structures for high-speed cylinder presses
15d-13/11	Bed supports and bed raising and lowering in high-speed cylinder presses (15d-5/01)
15d-13/12	Devices for driving high-speed cylinder presses
15d-13/20	High-speed cylinder presses with devices for counting the sheets before or after printing
15d-13/21	Arrangement of numbering devices in high-speed cylinder presses
15d-13/22	Cooling, heating and drying of the forms in high-speed cylinder presses
15d-13/30	High-speed stamping presses
15d-13/40	Miscellaneous arrangements in high-speed cylinder presses
	Rotary printing presses and components (15d-27 – 15d-36)
	Rotary printing presses for perfecting
15d-14/01	General
15d-14/03	in which several printing units are superimposed or successively arranged
15d-14/04	in which several printing units are successively arranged, end to end machines
15d-14/06	in which several printing units are juxtaposed
15d-14/08	in which first-impression and perfecting are carried out between the same form and impression cylinder, pony printing units
15d-14/09	in which several impression cylinders are arranged around a plate cylinder relief
15d-14/20	Rotary printing presses for first-impression
15d-15	Rotary printing presses for different sizes
	Rotary printing presses for multicolour printing
15d-16/01	in which one impression cylinder cooperates with several plate cylinders
15d-16/02	in which each plate cylinder cooperates with one impression cylinder
	Printing presses, particularly rotary printing presses
15d-17/01	for the printing of tear-off calendars
15d-17/02	for the printing of carbon-copy books, etc.

15d-17/05	for the printing of wrapping paper, tying bands, etc.
15d-17/10	for printing miscellaneous articles with flat surfaces
15d-17/20	for printing miscellaneous articles with curved surfaces
15d-17/21	for printing incandescent lamps
15d-17/22	for printing various round articles, such as bottles, lamp chimneys, tin cans, etc.
15d-17/23	for printing on pencils, etc.
15d-17/40	Miscellaneous rotary presses
15d-18	Rotary planographic presses
	Rotary rubber printing presses
15d-19/01	General
15d-19/02	in which one rubber cylinder cooperates with several plate cylinders
15d-19/03	in which one impression cylinder cooperates with several rubber cylinders
15d-19/04	with two cylinders
15d-19/05	with three cylinders for sheets and webs
15d-19/06	with three cylinders for sheet metal plates, etc.
15d-19/07	with two contacting rubber cylinders, each of which cooperates with one or more plate
	cylinders
15d-19/15	Fastening the rubber blanket to the rubber cylinder (15d-11/11)
15d-19/16	Starting and stopping devices for the cylinders (15d-26/05)
15d-20	Dampeners for rotary planographic presses (15d-8/10)
	Rotogravure printing presses
15d-21/01	General
15d-21/02	for multicolour printing
15d-21/03	for making proofs
15d-21/10	Auxiliary devices used in the changing of plate cylinders or their copper tubes
15d-21/11	Wiping devices (15d-9/02)
15d-22	Rotary presses for printing and embossing
15d-23	Rotary presses for printing combination plates
	Plate cylinders
15d-24/01	the circumference of which is entirely or partially flattened
15d-24/02	with movable printing plates (15d-6/03)
15d-24/02	the printing plates of which form an endless band
15d-24/04	of stone
15d-24/10	of miscellaneous designs
15d-25	Devices for dampening paper webs or sheets in printing machines
15d-26/01	Motor drives for rotary presses (21c-62/45)
15d-26/02	Miscellaneous drives
15d-26/02	Fudges for "latest news"
15d-26/04	Arrangement of numbering devices in rotary presses (structure of the numbering unit
150-20/04	15h)
15d-26/05	Start and stop devices for the impression unit cylinders (15d-19/16)
15d-26/06	Supports for impression and plate cylinders
15d-26/07	Structure of the impression cylinders of rotary presses
15d-26/08	Registering adjustment in rotary presses by adjustment of the plate cylinders or of the impression plates on the plate cylinders
15d-26/20	Cooling or heating of impression and plate cylinders
15d-26/21	Manipulation, e.g. preprint cleaning of the paper web
15d-26/22	Drying of the print by heating, cooling, powdering, etc. of the web before or after
	printing (15d-13/02)

15d-26/30	Miscellaneous in the art of rotary presses
	Particular equipment for high-speed and rotary printing presses
15d-27/01	Hand-feeding devices for sheets, general (automatic sheet-feeding devices 15e)
15d-27/02	Front gauges
15d-27/03	Pre-grippers
15d-27/04	Side and draw-in marks
15d-27/05	Special feed table structures (15e-9/16; 15e-9/17)
	Sheet delivery devices
15d-28/01	General
15d-28/02	with reciprocating delivery elements
15d-28/03	with delivery elements having a constant or staged step-by-step unidirectional motion
15d-28/04	with swinging flies
15d-28/05	with suction elements
15d-28/06	in which offset sheets are inserted between the printed sheets
15d-28/07	in which the printed sheets are rolled or unrolled in a paper web
15d-28/08	with cutting and folding devices in high-speed cylinder presses
15d-28/09	Delivery tables (15e-9/09; 15e-9/10; 15e-10)
15d-28/10	Delivery of the printed sheets to several pile tables (15d-28/06)
15d-29	Devices for straightening of the printed sheets on the delivery table
150-29	
	Paper web guides
15d-30/01	General
15d-30/02	with registering devices (21c-62/45)
15d-30/03	with paper web tension regulators and paper roll brakes
15d-30/04	with paper roll drives
15d-30/05	with devices for gluing a new web to the paper web being run off
15d-30/06	Supports, fastening, lifting in and out of paper rolls
15d-30/07	Pressing and smoothing webs or sheets on plate cylinders
15d-31	Devices to prevent soiling of the perfecting cylinder
	Devices for disengagement in case of faulty feed or delivery of paper webs or
	sheets
15d-32/01	by mechanically actuated means
15d-32/02	by electrically actuated means
15d-32/10	Labour safety devices
	Devices for fastening
15d-33/01	of type matter to the base of high-speed cylinder presses
15d-33/02	of type matter to the plate cylinders of high-speed cylinder presses
15d-33/03	of flat stereotype plates and rigid rotogravure plates to the base of high-speed cylinder
	presses
15d-33/04	of curved stereotype plates and curved rigid rotogravure plates to the plate cylinders
	of rotary presses
15d-33/10	of flexible planographic and rotogravure plates to the base of high-speed cylinder presses or to the plate cylinders of rotary presses
15d-33/15	of printing forms to a support used as a printing form carrier in the machine
100 00/10	
	Inking units
15d-34/01	for high-speed cylinder presses, general
15d-34/02	for rotary printing presses, general
15d-34/03	for rotogravure presses
15d-34/04	for printing machines in which the ink is sprayed on
15d-34/10	Devices for adjusting inking rollers - roller sockets

15d-34/11 15d-34/12	Structure of ink fountains and doctor blades Structure of ink rollers, mechanical section (chemical section 15I-8/01)
15d-34/20	Devices for the axial reciprocation of the inking rollers, especially of the distributor rollers
15d-34/30	Miscellaneous special features of inking units
	Devices for folding, cutting, collecting and delivering
15d-35/01	General
15d-35/02	for longitudinal folding and cutting
15d-35/03	for transverse folding and cutting
15d-35/04 15d-35/07	Folding cylinders and drums
15d-35/07 15d-35/08	for collecting for adding supplements and covers
15d-35/08	for delivery
15d-36	Doctor arrangements
	Office printing machines
15d-37	Stencil machine for flat stencils (8c-8; duplicating devices 15i)
	Rotary stencil machines
15d-38/01	in which the stencil is attached to a drum
15d-38/02	in which the stencil runs over two or more drums
15d-38/03	Fastening devices for the stencils
15d-39	Type printers with flat type or flat plate
15d-40	Rotary type printers
15d-41/01	Rotary rubber type printers
15d-41/02	Rotary flat printers
15d-41/10	Miscellaneous in the art of rotary office printing machines
	Addressing machines
15d-42/01	in which the printing plates are guided between two flat impression surfaces
15d-42/02 15d-42/03	in which the printing plates are guided between two impression cylinders in which the printing plates are guided between one flat impression surface and one
150-42/05	impression cylinder
15d-42/04	with devices for printing standing matter
15d-42/10	with devices for conveying the plates or stencils
15d-42/11	with devices for selecting plates or stencils
15d-42/12	with devices for passing over or repeatedly printing plates
15d-42/15 15d-42/20	with devices for the feed and delivery of sheets and webs Address printing plate and stencil structures
15d-42/20 15d-42/30	Containers for address printing plates and stencils
15d-42/35	Disengaging devices
15d-42/40	Miscellaneous
15d-43/01	Inking units for type printers
15d-43/02	Inking units for stencil printers
15d-43/03	Devices for advancing the inking ribbon in type printers
	Sheet feeding and delivery devices
15d-44/01	in office printing machines with flat type
15d-44/02	in office rotary machines
	Platen printing presses and accessories
	Platen presses
15d-45/01	with swinging platen for single colour printing of sheets

15d-45/02	with parallel-motion platens for single colour printing of sheets
15d-45/03	Hand presses
15d-45/04	for rubber printing
15d-45/05	for planographic printing
15d-45/06	for single colour printing of webs
15d-46/01	for multicolour printing of sheets, general
15d-46/02	for multicolour printing of sheets, with rotating platens or form supports
15d-46/03	for multicolour printing of webs
15d-47	Platen presses for perfecting
15d-48/01	Plate inking units in platen presses
15d-48/02	Roller inking units in platen presses
15d-48/02	Inking units in platen presses circulating around the base or platen of platen presses
15d-48/03	
	Ribbon inking units for platen machines
15d-48/05	Rail and roller structures for the inking units of platen machines
15d-49	Devices for moving the ink roller carriage of platen machines
	Devices for the feeding and delivery of sheets in platen machines
15d-50/01	General
15d-50/02	by means of circulating grippers
15d-50/03	by means of suction and/or compressed air
15d-50/04	Lay gauges
15d-50/05	Grippers for placing and holding the sheet on the platen
15d-51	Start and stop devices for the printing pressure of platen presses
15d-52/01	Safety devices in platen machines actuated in case of functional disturbances
15d-52/02	Safety devices in platen machines against accidents, hand protectors
15d-53	Headline printing presses
15d-54/01	Sheet counting devices for platen machines
15d-54/02	Miscellaneous in the art of platen machines
15d-55	Platen embossing presses with intaglio forms and wiping apparatus
15d-56	Platen embossing presses for Braille, gold, and colour printing
15e	Automatic folding machines for paper sheets (for paper webs, general 54d-4; in connection with the press 15d-35), auxiliary machines related to printing, especially perforating, bronzing, edging; automatic sheet feeding devices for printing and other machines
	Folding machines
15e-1/01	with folding blades, knife folding
15e-1/02	with folding boxes, folding by buckling
15e-1/03	for taking up and simultaneous folding of the lowest sheet in a pile
15e-1/04	for full size and half sheets
15e-1/05	with blades guided along parallel paths
15e-1/06	Feed and delivery devices
15e-1/07	Turning devices for cross folding
15e-1/08	Electrical devices
15e-1/09	Cutting devices
15e-1/10	Control, straightening and disengaging devices, also feed control devices
15e-1/11	Grooving, smoothing, adhesive application
15e-1/12	Zigzag folding and insetting (of paper webs 54d-4/01; 15d-35/03)
15e-1/13	Sheet pushers
15- 1/11	Ocumentante

15e-1/14 Counters

- 15e-1/15 Folding cylinder supports
- 15e-1/16 Oblique cylinder and belt feeding boards
- 15e-1/17 Miscellaneous
  - **Perforating machines and devices** (7c-11; 11e-8; 15h-2/05; 15h-2/07; 54d-3)
- 15e-2/01 automatic, with revolving knives
- 15e-2/02 automatic, with knives parallel or nearly parallel to the base
- 15e-2/03 in connection with printing machines
- 15e-2/04 in connection with folding and bronzing machines, etc.

#### Bronzing machines and devices, including accessories (75c-3; 75c-22)

- 15e-3/01 Flat bronzing machines
- 15e-3/02 Cylinder bronzing machines
- 15e-3/03 Bronzing devices for liquid bronze ink
- 15e-3/04 Feeding and delivery devices for bronzing machines
- 15e-4 Devices for the strip-printing of sheet edges, envelopes, etc.

#### Automatic sheet feeding devices for printing and other machines

Devices for separating the sheets of a pile by means of friction rollers, friction belts, rubbing fingers, etc.

- 15e-5/01 Friction rollers and disks for stripping off the top sheet in a vertical pile
- 15e-5/02 Friction rollers and disks for stripping off the bottom sheet in a vertical pile
- 15e-5/03 Friction rollers and disks in connection with curved stacks
- 15e-5/04 Sensors for advancing the feeding bands
- 15e-5/05 Sensors for lifting the stripping devices
- 15e-5/06 Friction belts, rollers, rubbing fingers for separating the top or bottom sheet of the pile
- 15e-5/07 Presser arms and fingers
- 15e-5/08 Buckling fingers and rollers in connection with stripping devices
- 15e-5/09 Electrical control devices
- 15e-5/10 Separation of the top or bottom sheet of an oblique or vertical pile by means of stripping devices
- 15e-5/11 Blocking and locking of the stripping devices
- 15e-5/12 Use of tongues in connection with stripping devices
- 15e-5/13 Miscellaneous
- 15e-6 Devices for lifting separate sheets by means of adhesives
- 15e-7 Devices for separating sheets by means of needles
  - Devices for lifting separate sheets of a pile by air suction
- 15e-8/01 of the top sheet by suction tubes
- 15e-8/02 of the top sheet by a single suction element
- 15e-8/03 of the top sheet by suction drums, suction disks, suction cylinders
- 15e-8/04 of the bottom sheet by suction tubes
- 15e-8/05 of the bottom sheet by a single suction element
- 15e-8/06 of the bottom sheet by suction drums, suction disks, suction cylinders
- 15e-8/07 Special suction head structures
- 15e-8/08 Separation of sheets from oblique or vertical piles
- 15e-8/09 Use of suction and compressed air for loosening and separating sheets
- 15e-8/10 Use of buckling fingers, stripping rollers, etc., in conjunction with suction or compressed air for separating sheets
- 15e-8/11 Grippers working in conjunction with suction elements in sheet separation
- 15e-8/12 Oscillating suction arms for sheet separation
- 15e-8/13 Electrical devices

15e-8/14 15e-8/15	Suction elements in connection with curved stacks Miscellaneous
	Special devices associated with automatic sheet feeding apparatus
15e-9/01	Retarding devices for sheet feeding apparatus
15e-9/02	Gear shifts for sheet feeding apparatus
15e-9/03	Straightening the sheets during feeding
15e-9/04	Straightening the sheets on the pile
15e-9/05	Feeding the sheets along chutes by means of pushers or carriages
15e-9/06	Feeding at intervals; cutting, turning
15e-9/07	Special feeding devices for single sheets
15e-9/08	Raising and lowering, or reciprocating the stack table at every single operation
15e-9/09	Tables and feeding devices capable of being folded up and down, raised and displaced
15e-9/10	partitioned stack tables
15e-9/11	Special gripper, grip chain and grip roller structures in sheet feeding devices
15e-9/12	Tongues and presser fingers in sheet feeding devices
15e-9/13	Control and disengagement devices actuated in case of faulty sheet feeding operation
15e-9/14	Sorting devices for the separation of satisfactory material from rejects
15e-9/15	Counting devices
15e-9/16	Feeding the sheets on the feed board of the press by means of belts and at variable speeds (15d-27/05)
15e-9/17	Feeding the sheets on the feed board of the press by means of reciprocating and swinging rods (15d-27/05)
15e-10	Devices for lifting, lowering or otherwise moving the stack table (15d-28/09)
15e-11	Automatic feeding mechanism for cards, envelopes, etc., for printing and other machines
	Machines for the manufacture and treatment of inking rollers for printing machines
15e-12/01	Machines for the manufacture and treatment of inking rollers for printing
15e-12/01 15e-12/02	Machines for the manufacture and treatment of inking rollers for printing machines
	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers
15e-12/02	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers Devices for stripping composition rollers
15e-12/02 15e-12/03	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers Devices for stripping composition rollers Devices for covering with leather and coating impression cylinders
15e-12/02 15e-12/03 15e-13	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers Devices for stripping composition rollers Devices for covering with leather and coating impression cylinders Devices for mounting and removing cylinders in high-speed presses; etc. Devices for cleaning cylinders and forms, and for preserving cylinders
15e-12/02 15e-12/03 15e-13 15e-14	Machines for the manufacture and treatment of inking rollers for printing machinesDevices for casting composition rollersDevices for stripping composition rollersDevices for covering with leather and coating impression cylindersDevices for mounting and removing cylinders in high-speed presses; etc.Devices for cleaning cylinders and forms, and for preserving cylindersSpecial auxiliary machines for the printing art
15e-12/02 15e-12/03 15e-13	Machines for the manufacture and treatment of inking rollers for printing machinesDevices for casting composition rollersDevices for stripping composition rollersDevices for covering with leather and coating impression cylindersDevices for mounting and removing cylinders in high-speed presses; etc.Devices for cleaning cylinders and forms, and for preserving cylindersSpecial auxiliary machines for the printing artNewspaper inserting machines
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02	<ul> <li>Machines for the manufacture and treatment of inking rollers for printing machines</li> <li>Devices for casting composition rollers</li> <li>Devices for stripping composition rollers</li> <li>Devices for covering with leather and coating impression cylinders</li> <li>Devices for mounting and removing cylinders in high-speed presses; etc.</li> <li>Devices for cleaning cylinders and forms, and for preserving cylinders</li> <li>Special auxiliary machines for the printing art</li> <li>Newspaper inserting machines</li> <li>Mobile feed boards</li> </ul>
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03	<ul> <li>Machines for the manufacture and treatment of inking rollers for printing machines</li> <li>Devices for casting composition rollers</li> <li>Devices for stripping composition rollers</li> <li>Devices for covering with leather and coating impression cylinders</li> <li>Devices for mounting and removing cylinders in high-speed presses; etc.</li> <li>Devices for cleaning cylinders and forms, and for preserving cylinders</li> <li>Special auxiliary machines for the printing art</li> <li>Newspaper inserting machines</li> <li>Block height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc.</li> </ul>
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03 <b>15f</b>	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers Devices for stripping composition rollers Devices for covering with leather and coating impression cylinders Devices for mounting and removing cylinders in high-speed presses; etc. Devices for cleaning cylinders and forms, and for preserving cylinders Special auxiliary machines for the printing art Newspaper inserting machines Mobile feed boards Block height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc. Ruling machines (15a-34; 70e-11)
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03 <b>15f</b> 15f	<ul> <li>Machines for the manufacture and treatment of inking rollers for printing machines</li> <li>Devices for casting composition rollers</li> <li>Devices for stripping composition rollers</li> <li>Devices for covering with leather and coating impression cylinders</li> <li>Devices for mounting and removing cylinders in high-speed presses; etc.</li> <li>Devices for cleaning cylinders and forms, and for preserving cylinders</li> <li>Special auxiliary machines for the printing art</li> <li>Newspaper inserting machines</li> <li>Mobile feed boards</li> <li>Block height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc.</li> <li>Ruling machines (15a-34; 70e-11)</li> <li>(No subdivision)</li> </ul>
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03 <b>15f</b>	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers Devices for stripping composition rollers Devices for covering with leather and coating impression cylinders Devices for mounting and removing cylinders in high-speed presses; etc. Devices for cleaning cylinders and forms, and for preserving cylinders Special auxiliary machines for the printing art Newspaper inserting machines Mobile feed boards Block height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc. Ruling machines (15a-34; 70e-11)
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03 <b>15f</b> 15f	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers Devices for stripping composition rollers Devices for covering with leather and coating impression cylinders Devices for mounting and removing cylinders in high-speed presses; etc. Devices for cleaning cylinders and forms, and for preserving cylinders <b>Special auxiliary machines for the printing art</b> Newspaper inserting machines Mobile feed boards Block height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc. <b>Ruling machines</b> (15a-34; 70e-11) (No subdivision) <b>Typewriters and accessories</b> <b>Classified according to the character of the type carrier</b>
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/03 <b>15f</b> 15f <b>15g</b> 15g-1	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers Devices for stripping composition rollers Devices for covering with leather and coating impression cylinders Devices for mounting and removing cylinders in high-speed presses; etc. Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Devices for cleaning devices, straightening machines, cleaning apparatus for zinc plates, etc. Ruling machines (15a-34; 70e-11) (No subdivision) Typewriters and accessories Classified according to the character of the type carrier Type-lever typewriters
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03 <b>15f</b> 15f <b>15g</b> 15g-1 15g-1	Machines for the manufacture and treatment of inking rollers for printing machinesDevices for casting composition rollersDevices for stripping composition rollersDevices for covering with leather and coating impression cylindersDevices for cleaning cylinders and forms, and for preserving cylindersSpecial auxiliary machines for the printing artNewspaper inserting machinesMobile feed boardsBlock height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc.Ruling machines (15a-34; 70e-11)(No subdivision)Typewriters and accessoriesClassified according to the character of the type carrier Type-lever typewriters Type-wheel typewriters with keys
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03 <b>15f</b> 15f 15g 15g-1 15g-2 15g-3	Machines for the manufacture and treatment of inking rollers for printing machinesDevices for casting composition rollersDevices for stripping composition rollersDevices for covering with leather and coating impression cylindersDevices for covering with leather and coating impression cylindersDevices for covering with leather and coating impression cylindersDevices for cleaning cylinders and forms, and for preserving cylindersSpecial auxiliary machines for the printing artNewspaper inserting machinesMobile feed boardsBlock height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc.Ruling machines (15a-34; 70e-11)(No subdivision)Typewriters and accessoriesClassified according to the character of the type carrierType-lever typewritersType-wheel typewriters with keysType-wheel sector typewriters with keys
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03 <b>15f</b> 15f <b>15g</b> 15g-1 15g-2 15g-3 15g-4	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers Devices for stripping composition rollers Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Special auxiliary machines for the printing art Newspaper inserting machines Mobile feed boards Block height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc. Ruling machines (15a-34; 70e-11) (No subdivision) Typewriters and accessories Classified according to the character of the type carrier Type-lever typewriters Type-wheel typewriters with keys Type-wheel sector typewriters with keys Type-wheel sector typewriters with keys Type-cylinder typewriters with keys
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03 <b>15f</b> <b>15g</b> 15g-1 15g-2 15g-3 15g-4 15g-5	Machines for the manufacture and treatment of inking rollers for printing machinesDevices for casting composition rollersDevices for stripping composition rollersDevices for covering with leather and coating impression cylindersDevices for covering with leather and coating impression cylindersDevices for covering with leather and coating impression cylindersDevices for cleaning cylinders and forms, and for preserving cylindersSpecial auxiliary machines for the printing artNewspaper inserting machinesMobile feed boardsBlock height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc.Ruling machines (15a-34; 70e-11)(No subdivision)Typewriters and accessoriesClassified according to the character of the type carrierType-lever typewritersType-wheel typewriters with keysType-wheel sector typewriters with keysType-cylinder typewriters with keysType-cylinder typewriters with keysType-disk typewriters with keys
15e-12/02 15e-12/03 15e-13 15e-14 15e-15/01 15e-15/02 15e-15/03 <b>15f</b> 15f <b>15g</b> 15g-1 15g-2 15g-3 15g-4	Machines for the manufacture and treatment of inking rollers for printing machines Devices for casting composition rollers Devices for stripping composition rollers Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for covering with leather and coating impression cylinders Devices for cleaning cylinders and forms, and for preserving cylinders Special auxiliary machines for the printing art Newspaper inserting machines Mobile feed boards Block height measuring devices, straightening machines, cleaning apparatus for zinc plates, etc. Ruling machines (15a-34; 70e-11) (No subdivision) Typewriters and accessories Classified according to the character of the type carrier Type-lever typewriters Type-wheel typewriters with keys Type-wheel sector typewriters with keys Type-wheel sector typewriters with keys Type-cylinder typewriters with keys

- 15g-8 Type-cylinder typewriters with (single) key or indicator
- 15g-8/50 Type-wheel and cylinder typewriters, electrically operated
- 15g-9 Type-disk typewriters with (single) key or indicator
- 15g-10 Type-plate typewriters
- 15g-11 Type-bar typewriters
- 15g-12 Type-rod typewriters
- 15g-13 Type-band or rule typewriters
- 15g-14 Typewriters with spherical type carriers

#### Typewriters classified according to use

- 15g-15 Book and flat plate typewriters
- 15g-16 Tabulating typewriters, tabulators
- 15g-17 Musical notation typewriters (51e-4; 51e-5)
- 15g-18 Stenographic typewriters
- 15g-19 Braille typewriters (42n-2/02; 70d-13/10)
- 15g-20 Cryptographic typewriters for coding and decoding (42n-14)
- 15g-20/50 Line typewriters

## Typewriters classified on the basis of the drive

- 15g-21 Pneumatic typewriters
- 15g-22 Hydraulic typewriters
- 15g-23 Electric typewriters
- 15g-24 Typewriters with automatic drive for duplicating

## Operating and shifting devices for typewriters

Type-bar operating devices (15g-1)

- 15g-25/01 General
- 15g-25/02 Power operated
- 15g-25/03 Noiseless operation
- 15g-25/04 for machines with interchangeable type bar basket

#### Shifting devices

- 15g-26/01 with shifting platen
- 15g-26/02 with shifting type carrier
- 15g-26/03 power operated (15g-25/02)

#### Carriage feed mechanisms

#### 15g-27/01 General

- 15g-27/02 with spacing corresponding to the different letter widths
- 15g-27/03 with equipment for writing after locking
- 15g-27/04 Line justifying devices
- 15g-27/05 Devices for the release and silent return of the carriage
- 15g-27/06 Devices for arbitrarily feeding the carriage in either direction

# Line spacing devices

- 15g-28/01 General
- 15g-28/02 with device for writing above or below the line

# 15g-28/03 Line escapement wheel couplings

15g-29 Back spacer mechanisms for carriages

#### Carriage return mechanisms

- 15g-30/01 General
- 15g-30/02 Electromagnetically operated
- 15g-30/03 Electric motor operated
- 15g-31 Platen feeding devices for line-forming in the direction of rotation of the platen

# Elements of typewriter carriages

15g-32/01 15g-32/02 15g-33 15g-34	Margin limiting devices for the side margin for the upper or lower margin of the paper sheet Devices for indicating the position of the carriage Carriage structures and guides
15g-35/01 15g-35/02 15g-35/03 15g-35/04 15g-35/05 15g-35/06 15g-35/07 15g-35/09 15g-35/09 15g-35/10 15g-35/11 15g-35/12 15g-35/13	Paper feeding mechanism Feed roll structures and drives Paper holding fingers and upper pressure rollers Side margin guides Front guide plates Devices for holding and guiding cards Devices for typing one original and several account copies with special feed of the original and of the account copies Billing devices Devices for typing totaliser strips Devices for typing paper webs Devices for typing paper webs Devices for typing paper webs with removable carbon sheet holders Devices for the automatic feed of envelopes and sheets Miscellaneous paper feeding devices
15g-36	Paper rollers and supports therefor
15g-37/01 15g-37/02 15g-37/03 15g-37/04 15g-37/05 15g-37/06 15g-37/07 15g-37/08 15g-38 15g-38	Typewriter inking units (15g-1 – 15g-14) Inking devices with ink ribbon for multicolour writing Automatic devices for reversing longitudinal ribbon movement Ribbon fork guide drives Accent-writing devices Inking devices with auxiliary ink ribbons (15g-35/10) Ink ribbons Ink ribbons spools and ribbon attachment to the spool Inking devices with ink pads Inking devices with ink rollers
15g-40/01 15g-40/02 15g-40/03 15g-41 15g-42 15g-43 15g-45/01 15g-45/02 15g-45/03 15g-45/04 15g-45/06 15g-45/06 15g-45/06 15g-45/08 15g-45/09 15g-45/09 15g-45/10	Other typewriter elements Key units (15g-1 – 15g-5) Key caps Key locks Type lever arrangements (15g-1; 15g-25; 15g-45/06) Printing hammers Devices for rendering the writing visible Devices for counting letters, words, lines and pages Sound damping devices Typewriters for oriental languages Type-cleaning devices Underlining or dash making devices Sheet feeding and straightening devices Types and devices for mounting and attaching same on the type carriers Type bar supports for the rest position Erasing devices Special devices for portable typewriters

15g-45/11 15g-45/12 15g-45/13 15g-45/14 15g-45/15	Manufacture of type wheels Carbon paper holders and roller guards Devices for actuating the keys or other parts with the foot or knee Devices for inking or renewing the ink ribbon Miscellaneous other equipment for typewriters
15g-46/01 15g-46/02 15g-46/03 15g-46/04	Copy holders for typewriters with flat support without line-by-line indicator feed with line-by-line indicator feed with line-by-line copy feed with roller-guided copy
15h	Hand stamps, stamping and numbering mechanisms
15h-1/01 15h-1/02 15h-1/03 15h-1/04 15h-1/05 15h-1/06 15h-1/07 15h-1/08	Hand stamps General Ribbon stamps Roller stamps Stamps with movable or flexible handle Stamps with visible mark Stamps with visible mark Stamps with interchangeable stamp plates Stamps with aligning device Stamps with several printing surfaces
15h-1/09 15h-1/10	Egg stamps (45h-43/10) Stencil stamps
15h-1/11	Plier-type stamps, general, and punching, stamping and marking plier-type devices for tickets, etc. (recording and indicating devices for plier-type stamps, etc. 43a-21)
15h-1/12	Hammer or impact stamps
15h-1/13	Swinging motion stamps
15h-1/14	Press-down self-inking stamps
15h-1/15	Multicolour stamps
15h-1/16	Ball stamps
15h-1/17	Dry stamps
15h-1/18	Pocket stamps
	Hand-printing devices
15h-2/01	General
15h-2/02	with guide rule
15h-2/03	Type holder
15h-2/04	Laundry-marking devices
15h-2/05	Check printing devices
15h-2/06	Check perforating devices
15h-2/07	Automatic perforating devices (15e-2; 54d-3)
15h-3 15h-4	Stamp pads, inking devices for hand stamps Letter stamping devices and machines for cancelling postage stamps (dispatching machines 43a-24)
15h-5/01	Card and ticket printing devices (43a-20; 42p-12/50)
15h-5/02	Label printing devices
15h-6	Number and numbering devices for the printing art, paginating machines (42p)
15h-7/01	Miscellaneous in the art of hand stamps
15h-7/02	Stamp holders

15i	Duplicating devices (stencil printing 15d); duplicating processes, insofar as they are dependent upon the use of special equipment (chemical processes 15k)
15i-1	Copying presses
15i-2	Copying machines for documents (photocopying machines 57c-11; sculptors' copying machines 75a-13 – 75a-15)
15i-3/01	Loose-leaf manifolding devices (writing pads 70d-11/01, 70d-11/10, 70d-11/20)
15i-3/02	Manifolding devices for paper rolls
15i-4/01	Manifolding blocks
15i-4/50	Manifolding books
15i-5	Hectographs (hectographic materials 15I-4/01)
15i-6	Miscellaneous duplicating devices (15d-37 – 15d-44; sheet feeding devices 15e-1, 15e-5 – 15e-11)
15k	Printing and duplicating processes, including colour relief printing (when determined by the use of special machines 15d, 15i; photomechanical reproduction 57d); special printed products; letter spacing
15k-1/01	Inking and impressing a printing form in general (15h-3)
15k-1/02	Stencil printing
	Multicolour printing (57d-3)
15k-2/01	Simultaneous printing of all colours, mosaic printing
15k-2/02	Superimposed printing of the colours
15k-2/03	Combination printing (15d, 23)
15k-3	Printing with pastel colours, e.g. transfer and varnish inks
15k-4	Printing with dissolved paints, e.g, hectographing (15i-5; 15i-4) rubber cylinder printing
15k-5	Printing with metal foils, bronze, powdered inks (75b-3 – 75b-5; 75c-3; 75c-4)
15k-6	Colour relief printing (75b-11; 75b-19)
	Duplication processes
15k-7/01	Copying processes, office flat printing processes (mechanical section 15b-1/05;
	15d-42; 15i-1, 15i-2, 15i-6)
15k-7/02	Manifolding processes (15i-3; 15i-4)
15k-7/03 15k-7/04	Contact printing, "catatype" [catalytic printing] (57d-9) Chemical printing
15k-7/04 15k-7/05	Electrical printing
1010 1700	Printing upon bases other than ordinary printing paper (cloth-printing 8n)
15k-8/01	Printing upon solid articles
15k-8/02	Printing upon metal
15k-8/03	Printing upon wood, horn, celluloid, rubber
15k-8/04	Printing upon glass, ceramic articles (80b-23)
15k-8/05	Graphic printing on textiles, leather, linoleum (8n-1 – 8n-4)
15k-8/06	Printing upon specially prepared papers (75b-6)
	Printing of special designs
15k-9/01	Card printing
15k-9/02	Musical notation (musical type setting 15a-12)
15k-9/03	Natural design printing, wood and marble grains (75b; 75d)
15k-9/04	Special adaptation of printed patterns to the printing industry
15k-9/05	Special effects
15k-9/06	Watermark printing (55d-17; 75d-5)
15k-9/07	Relief print reproduction by means of ground powders

15k-9/08 15k-9/09 15k-9/10 15k-9/11 15k-9/12	Transfer picture printing (75c-5; 80b-23) Transfer pattern printing (8n) Printing of securities (55f-9; 75d-5/03) Braille writing (15g-19) Wallpaper printing, chemical section, apart from cloth-printing (8c; 8n; 75b)
15k-10/01	Letter spacing and other modifications of the appearance, especially preparation of printing forms
15k-10/02 <b>15l</b>	Relief plates Materials for graphic printing, e.g. plates, compositions, inks, wetting and washing media, matrix boards
15 -1	Printing plates of natural and artificial stone also stone composites on a metal backing (15b-1; 15b-6)
15I-2/01 15I-2/02	Printing plates of metal for relief and intaglio printing for planographic printing
15 -3	Printing plates of various materials, e.g. celluloid (39b)
15I-4/01 15I-4/02	Flexible printing plates Transfer sheets, hectographic sheets and materials (15k-4) Stencil sheets (stencil papers 55f-15)
	Printing plates other than plane, especially cylinders (mechanical structure 8c, 15d)
15I-5/01 15I-5/02 15I-5/03	of stone of metal of various materials
15I-6/01 15I-6/02 15I-6/03 15I-6/04	Chemical grinding agents Chemical graining agents (67a-9; 67a-13; 67a-14) Chemical cleaning agents (22g-14) Base plates for printing forms, compositions for backing up the shell (electrotype) and chemical means for attaching printing forms to base plates, as supports in the press (fastening of printing forms to the bed or base plates, as supports in the press (15d-33)
15I-7/01 15I-7/02 15I-7/03 15I-7/04 15I-7/05	Transfer media for graphic printing Printing inks (8n; 22g; 22h) Inks for hectographs, typewriters, manifolding papers (15k-4) Inks for lithography, autography (22g) Chemically active inks (sympathetic inks and colours 22g) Wetting, washing and neutralising agents
15I-8/01	Materials for the components or accessories of printing machines Roller materials for ink and distributor cylinders (manufacturing equipment, e.g. for casting 15e-12; cleaning 15e-14)
15 -8/02	Wipers for intaglio printing
15I-8/03	Covers for ink, wetting and impression cylinders, impression blankets (cover devices 15e-12)
15 -9	Materials for the reproduction of printing forms, especially flongs for stereotyping (15b-2)