

Universal Decimal Classification —

English full edition —
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UDC 681.6 Graphic reproduction
machines and equipment

UDC 025.45:681.6

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Foreword

The English version of the Universal Decimal Classification (UDC) is being prepared and published as BS 1000 by the British Standards Institution (BSI) at the original joint request of the British Society for International Bibliography (BSIB) and the Association of Special Libraries and Information Bureaux (ASLIB), now amalgamated as Aslib. It has the approval of the Lake Placid Foundation, New York, proprietors of the Dewey Decimal Classification, from which the UDC derives. The English full edition of the UDC is authorized by the International Federation for information and Documentation (FID), PO Box 90402, 2509 LK The Hague, Netherlands.

This section is part of the English full edition. It should be used in conjunction with a concise edition such as BS 1000M, which refers to many other subjects of interest not listed in this schedule, and provides a conspectus of the whole scheme, together with an introduction to its use. For further practical information about the principles, application and utilization of the scheme, users should refer to BS 1000C.

This edition of BS 1000[681.6], which supersedes the 1971 edition, includes modifications authorized in “*Extensions and Corrections to the UDC*” (FID publication no. 248) up to and including Series 12, No. 3, dated July 1986. Subsequent issues of “*Extensions and Corrections to the UDC*” should be consulted to keep the schedule up to date. British Standards related to this part of BS 1000 are listed on the inside back cover.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 28, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Scope

Under 681.6 is classed information about mechanical details of machines for reproducing material in graphic form, including typewriters and machinery for printing by all the various processes, i.e. relief, intaglio, planographic and screen stencil, machines for the production of printing surfaces, including composing and casting machines and their components, and devices, for stamping, franking, perforating and otherwise visually identifying documents. This section does not cover the details of printing processes nor the management of printing and publishing, which comes under 655.

Related subjects

651.9	Duplicating. Stenography
655	Graphic industries. Printing. Publishing. Book trade
659.13	Optical media
667.52	Black printing inks. Coloured printing inks
676	Pulp, paper and board industry
677.027.5	Textile printing
76	Graphic arts. Graphics
77	Photography and similar processes, especially 774/777 Photomechanical processes

Auxiliary signs and subdivisions

Full information about the common and special auxiliary signs and subdivisions (often abbreviated to “common and special auxiliaries”) will be found in BS 1000M and BS 1000C.

Colon sign of relation. For the classification of information for the public, as in abstracts and bibliographies, maximum use of colon combination rather than of common and special auxiliaries is recommended. The use of the colon sign of relation is preferable for multiple entry systems, as it will help prevent the concealment of information. This usually results in longer notation, however, and for information for more restricted use the application of auxiliaries, where available, may be simpler and more convenient provided that there is an adequate alphabetical subject index.

Common auxiliaries. The common auxiliaries of language = . . . , form (0 . . .), place (1/9), race and nationality (= . . .), time “. . . ”, point of view. 00 . . . , materials – 03 . . . and persons – 05 . . . are applicable throughout the UDC. However, they should be used mainly to express concepts not otherwise provided for in the schedules.

Special auxiliaries. Except for – 3 and – 6, the special auxiliaries listed under 62 are applicable throughout 681.6 unless otherwise indicated.

The – 3 and – 6 special auxiliaries listed under 681.6, denoting details of the printing and reproduction processes appropriate to the machines, are applicable throughout the schedule. They may be applied to any subdivision of 681.6 where the result forms a meaningful combination, e.g.

681.6–622	Graphic reproduction machines for two-colour processes
681.61–622	Typewriters for two-colour typing
681.62–622	Printing machines etc. for two-colour printing
681.624–622	Letterpress printing machines for two-colour printing

The .06/.069 special auxiliaries listed under 681.6, denoting the mechanical details of structure and design of the machinery in question, are similarly applicable, e.g.

681.6.064	Inking devices in graphic reproduction machines
681.612.064	Inking devices on typewriters
681.62.064	Inking devices on printing machines etc.
681.624.064	Inking devices on letterpress printing machines
681.624.4.064	Inking devices on rotary letterpress machines

Typographic presentation

Small type is used for cancelled numbers or text. The arrow → means either “see” or “see also” according to the context. The symbol ≅ “subdivide as” means that the number preceding it may be subdivided in the same way as, and with meanings analogous to the subdivisions of, the number which follows it.

Schedule

681.6 Graphic reproduction machines and equipment

Special auxiliary subdivisions

Except for - 3 and - 6, the special auxiliaries listed under 62 are applicable throughout 681.6, unless otherwise indicated.

681.6-3	Printing processes	681.6-623	Three colours
-32	Relief printing	-624	Four colours
-33	Diagraphy. Screen and stencil printing	-625	More than four colours
-34	Planographic printing (surface printing)	-63	Machines according to the state of the ink etc used
-35	Intaglio printing	-631	Using mobile liquid inks
-37	<i>[cancelled, superfluous]</i>	-632	Using viscous inks
-39	<i>[cancelled]</i> → 681.6-33	-633	Using solid materials, e.g. metal foil, metal powder
-4	Graphic reproduction machines according to the form of the printing surface	-64	Inkless techniques (relief, embossed etc.)
	681.6-4 ≅ 62-4	681.6.06	Details of graphic reproduction machines
-6	Graphic reproduction machines according to various characteristics		<i>Subdivisions are given under 681.61, 681.616 and 681.62</i>
-61	Machines according to the colour of the ink	.09	Combined graphic reproduction machines
-612	Individual colours		→ 681.629 Combined printing machines
	681.6-612 ≅ 535-2		<i>Further particulars may be denoted by the -3 special auxiliaries listed under 681.6, e.g.</i>
-62	Machines according to the number of ink colours		681.6.09-32-34 Combined relief and planographic presses
-621	One colour		
-622	Two colours		

Principal divisions

681.61 Typewriters. Shorthand machines (stenographs).

Typesetting machines (composing machines).

Machines and equipment for production of printing formes

Special auxiliary subdivisions for 681.61		681.61.062.36	Mechanisms for moving the carriage in any direction
681.61.06	DETAILS OF TYPEWRITERS AND COMPOSING MACHINES	.4	Line spacing mechanisms
.061	Types and matrices	.42	With arrangements for typing above or below the line
.062	Internal mechanisms. Movement and control devices	.43	Line spacing sprocket couplings
.1	Type bar control devices	.5	Back spacing mechanisms
.12	With power drive	.6	Carriage return mechanisms
.13	With quiet striking	.62	Driven by electromagnets
.14	For typewriters with interchangeable type bars	.63	Driven by electric motor
.18	Mechanisms for driving of the keys or other parts by means of the foot or knee	.7	Roller turning mechanisms
.2	Shift mechanisms	.8	Mechanisms for holding and guiding the type
.22	With shifting carriage	.82	Types and devices for mounting them on the type carrier
.23	With shifting type carrier	.83	Type guides at the point of impact
.24	With power drive	.84	Type bars. Type bar supports
.3	Carriage operating mechanisms	.86	Type wheels
.32	With spacing according to the width of the individual characters	.063	Carriage details. Feed mechanisms, rollers etc. Register bands of composing machines
.33	With arrangements for spacing the characters	.2	Margin controls
.34	With arrangements for spacing the lines	.22	Side margin controls
.35	Mechanisms for release and quiet return of the carriage (carriage release)	.23	Top and bottom margin controls

681.61.063.3	Devices for indicating the position of the carriage	681.61.067.54	Keys for oriental characters
.4	Construction and guiding of the carriage	.6	Duplicating and multiple copying mechanisms
.5	Paper feed mechanisms	.7	Counters for characters, words, lines and pages
.52	Construction and control of the feed rollers	.8	Tallying devices. Tacking devices
.53	Paper fingers and top auxiliary rollers	.9	Other parts
.54	Side edge guides	.91	Type cleaning devices
.55	Front guide plates	.92	Hand rests
.56	Devices for holding and controlling cards	.94	Copy holders
.57	Devices for typing on a base sheet and on one or more account sheets	.942	Flat, without movable line guide
.572	With separate feed of the base sheet and the account sheets	.943	With movable line guide
.59	Other mechanisms	.944	With copy moving a line at a time
.591	Billing mechanisms (invoicing mechanisms)	.945	With roller copy feed
.592	Mechanisms for typing a column of figures	.95	Devices for collecting and aligning several sheets of paper
.593	Mechanisms for typing on continuous paper	.96	Carbon paper holders. Roller protectors
.594	Mechanisms for typing on continuous paper with retractable carbon paper holder	.97	Devices for inking or restoring the ribbon
.595	Mechanisms for automatic feeding of envelopes and paper	.98	Special attachments for portable typewriters
.599	Details of paper guiding mechanisms	.068	Alignment devices
.6	Rollers. Roller bearings	Principal divisions (continued)	
.064	Inking mechanisms	681.612	TYPEWRITERS IN GENERAL
.3	Mechanisms according to the form of the inking device		→681.613 Special typewriters
.34	Mechanisms with ink ribbons		<i>Details of typewriters may be denoted by the .06 special auxiliaries listed under 681.61</i>
.342	For typing in more than one colour	.1	Type bar typewriters with covered type basket
.343	With automatic ribbon reversing mechanism	.2	Type bar typewriters with open type bed
.344	Drive of the ribbon guide	.21	Without shift mechanism
.346	Inking mechanisms with auxiliary ribbons	.22	With single shift mechanism
.347	Ribbons	.23	With double shift mechanism
	<i>Material may be denoted by Table Ik-03 common auxiliaries, the colour by the -612 special auxiliaries listed under 681.6, e.g.</i>	.3	Type wheel, type cylinder, typewriters etc. with keys
	681.61.064.347-037.37 Silk ribbons	.31	Type cylinder typewriters. Type drum typewriters. Type ball typewriters
	-612.04 Black ribbons	.32	Type disc typewriters
.347.6	Self-regenerating ribbons	.35	Type wheel typewriters
.348	Ribbon spools and fastening devices for the ribbon	.36	Type segment typewriters
.35	Mechanisms with ink pads	.4	Typewriters with a single type control device
.37	Mechanisms with ink rollers	.41	Type cylinder typewriters
.065	Keys. Keyboards	.42	Type disc typewriters
.1	Keyboards	.45	Type wheel typewriters
.12	Key mechanisms	.46	Type segment typewriters
.13	Key heads	.5	Other typewriters with mechanical action
.14	Key lock	.51	Type plate typewriters
.3	Type bars	.52	Striking bar typewriters
.4	Type heads	.53	Type spindle typewriters
.067	Devices relating to type and composed matter	.54	Typewriters with endless band or with rule as type carriers
.1	Mechanisms for adjusting the visibility of the type. Blackness. Density. Type impact control	.55	Type ball typewriters
.2	Sound absorption fitments	.6	Hydraulic typewriters. Pneumatic typewriters
.22	Sound absorption supports (pads and rests)	.62	Hydraulic typewriters
.24	Sound absorbing cases or boxes	.65	Pneumatic typewriters
.3	Underlining or line drawing mechanisms	.7	Electric typewriters
.4	Deletion and erasure mechanisms	.8	Accessories. Tabulators
.5	Keys for typing accents and oriental characters	.84	Justifying mechanism. Typewriters with justifying mechanism
.52	Keys with accents. Dead keys	.9	Other typewriters
		.92	Noiseless typewriters
		.94	Automatic typewriters

681.613	SPECIAL TYPEWRITERS →681.188 Cryptographic devices. Ciphering machines. Deciphering machines <i>Details of special typewriters may be denoted by the</i> .06 special auxiliaries listed under 681.61 .1 Braille typewriters .2 Typewriters with special characters. Typewriters with attachments for perforating or punching .3 Shorthand machines. Stenographic machines →651.933 Mechanical shorthand. Stenotyping .4 Teletype machines. Teleprinters →654.145 Communication by teleprinter .5 Typewriters for musical notation .7 Typewriters for book or ledger entries. Flat platen typewriters .8 Tabulating typewriters .9 Other special typewriters .92 Typewriters for oriental and other complicated scripts <i>Further particulars may be denoted by colon combination, e.g.</i> 681.613.92:003.332.5 Typewriters for Arabic characters .94 Syllabic typewriters	681.616 (cont'd)	681.616.065 Keyboards of composing machines .068 Justifying mechanisms in composing machines
681.615	MACHINES AND EQUIPMENT FOR TYPE MANUFACTURE. PRINTING TYPE →655.24 Type styles. Characters — Graphic industries. Printing. Publishing .2 Sorts of type .21 Printing type .214 Various details 681.615.214 ≈ 655.24 .22 Spacing .23 Setting rules .24 Leads. Clumps. Spacing furniture .4 Typefounding equipment .41 Engraving machines .42 Matrices .43 Hand casting equipment .44 Type casting machines .45 Type dressing equipment .46 Equipment for casting and making ready of rules .47 Equipment for dressing of spaces and furniture .49 Other casting accessories	681.616.1 .12 .13 .14 .15 .16 .18 .19 .2 .3 .33 .34 .36 681.616.4 .42 .421 .2 .3 .422 .2 .3 .4 .5 .6 .8 .423 .2 .3 .4 .424 .2 .3 .4 .5 .425 .21 .22 .23 .24 .25 .26 .27 .42 .43 .44 .45 .46 .5	COMPOSING TOOLS AND EQUIPMENT Chases. Galley chases Quoins Composing frames. Case stands Composing sticks. Setting rules Make-up galleys. Slip galleys →681.628.94 Measuring apparatus Measuring equipment for composing Other hand tools Early hand composing equipment Mechanisms for composing and distributing ready-made type Composing or setting mechanisms Distributing mechanisms Justifying mechanisms COMPOSING AND TYPECASTING MACHINES AND EQUIPMENT Line composing and casting machines, e.g. Linotype, Intertype Kinds of machines Matrix setting and line casting machines with driving rack for distribution Matrix setting and line casting machines with matrices on wires Magazines. Matrix magazine mechanisms Magazine aligning mechanisms Magazine switching mechanisms Magazine changing mechanisms Matrix spacing mechanisms on magazines Matrix slope correcting mechanisms Matrix hand magazines Composing mechanisms Matrix release mechanisms Space release mechanisms Matrix assembling mechanisms Feed mechanisms First transfer slide Intermediate transfer channel Casting slide for the matrix line Matrix distributing mechanism Casting mechanisms Casting mechanisms generally Melting pots Melting pot plungers Melting pot feed mechanisms Casting mouth-pieces on the line melting pot Melting pot mouth-piece wipers Melting pot heaters Mould wheel Mould wheel casting moulds Mould wheel slides Adjusting mechanisms for mould wheel slides Alignment mechanisms for the matrix on the mould wheel slide Mechanisms for casting or spacing, blanks etc.
681.616	COMPOSING OR TYPESETTING MACHINES AND EQUIPMENT →655.24/.28 Typography, composition — Graphic industries. Printing. Publishing <i>Details of equipment may be denoted by the .06 special auxiliaries listed under 681.61, e.g.</i> 681.616.061 Matrices .063 Automatic control devices, e.g. punched tape		

681.616.426	Matrix alignment mechanisms. Matrix locking mechanisms	681.617.222.2	Hydraulic pressure moulding machines
.427	Mechanisms for making ready (burr removal) the cast lines	.3	Toggle lever press, screw press moulding machines
.428	Other details	.223	Moulding machines using brushes
.429	Matrices. Space bands	.224	Other types of moulding machines
.2	Matrices	.227	Equipment for drying or damping moulds
.3	Space bands	.23	Machines and equipment for casting stereos
.43	Single letter composing and casting machines, e.g. Monotype	.232	According to shape of stereo
.432	Die cases	.2	Flat stereos
.435	Type casting mechanisms	.3	Curved stereos from horizontal casting-boxes
.436	Type line collecting mechanisms	.4	Curved stereos from vertical casting-boxes
.438	Type assembly details	.5	Tubular stereos
.45	Composing machines for large type (e.g. Ludlow)	.234	Types of casting machine
.47	Mechanisms for assembly of cast type, for office relief printing machines, e.g. Multigraph	.2	Casting machines with several casting-boxes
.48	Mechanisms for distributing cast type, for office printing machines	.3	Casting machines with direct metal feed from the melting pot to the casting box
681.616.5	MACHINES FOR EMBOSSING USING MOVABLE MATRICES OR DIES. DIE-STAMPING MACHINES	.4	Casting machines with metal pumped into casting-box
681.616.6	KEYBOARD TYPESETTING MACHINES	.5	Casting machines with tipping mechanisms pouring metal into the casting-box
681.616.7	PHOTOTYPESETTING MACHINES. PHOTOCOMPOSING MACHINES AND EQUIPMENT	.235	Individual parts of casting machines
	→655.287 Photosetting — Graphic industries. Printing. Publishing.	.2	Guards for melting pots and their moving parts
.72	Machines for working by flash-light	.3	Opening and closing mechanisms for casting-box and melting pot outlet
.74	Machines for working by cathodic rays	.4	Cooling arrangements for casting-box
.742	Over the matrices	.5	Melting pots
.744	Over a memory or storage device	.6	Matrix locks
.79	Other kinds of photocomposing machine	.238	Combined machines for casting and processing stereos
681.616.8	SPECIAL DEVICES FOR COMPOSING	.239	Special devices on stereo casting machines
	<i>Details of equipment may be denoted by the .06 special auxiliaries listed under 681.616, e.g.</i>	.24	Machines and equipment for processing of relief printing surfaces of all kinds
	681.616.8.063 Control tapes for composing and casting machines, e.g. perforated tape, magnetic tape	.242	For flat stereo plates
	→681.327 Ancillary digital equipment — Data processing equipment	.243	For curved stereo plates
.82	Machines and equipment for producing control tapes for composing and casting machines, e.g. tape perforating machines	.247	For trimming mounted stereos
.85	Equipment for the long-distance transmission of composing signals, e.g. Teletype	.248	For bending relief plates
.86	Equipment for the programming of composing machines by data processing	.26	Equipment for coating or plating stereos and other relief surfaces, e.g. for chromium plating
	→681.3 Data processing equipment	681.617.3	MACHINES AND EQUIPMENT FOR GALVANOPLASTIC DUPLICATION OF BLOCKS. ELECTROTYPING
681.617	MACHINES AND EQUIPMENT FOR PRODUCING RELIEF PRINTING SURFACES	.32	Moulding presses for producing the matrix
681.617.2	MACHINES AND EQUIPMENT FOR PRODUCING STEREOS, INCLUDING THOSE OF RUBBER AND PLASTICS	.33	Devices for rendering the matrix conductive
.21	Flong and other moulding materials	.34	Machines and equipment for producing the galvanic precipitate
.22	Machines and equipment for producing stereo moulds	.35	Equipment for mounting the electro plate
.222	Press moulding machines	.39	Other equipment for electrotyping
			→681.617.24 Machines and equipment for processing of relief printing surfaces of all kinds
		681.617.4	MACHINES AND EQUIPMENT FOR PRODUCTION OF ORIGINAL RELIEF BLOCKS (ETCHING, PROCESS ENGRAVING, PHOTOELECTRIC ENGRAVING)
		.42	Whirlers and other mechanisms for coating blocks with emulsion
		.43	Copying machines and equipment
		.44	Equipment for burning-in and dusting
		.45	Relief gelatine pattern and screen apparatus

681.617.46	Etching baths. Etching machines	681.618.33	Equipment for coating the plates with emulsion. Whirlers
.47	Reaming equipment		Copying equipment
.48	Engraving machines (for the production of relief blocks)	.34	Developing equipment
.49	Other machines and equipment for the production of original relief blocks	.36	Equipment for the production of planographic surfaces in an uninterrupted series of operations. Flow-lines
	→681.617.24 Machines and equipment for processing of relief printing surfaces of all kinds	.38	Other machines and equipment for the production of planographic printing surfaces
.6	Machines and equipment for producing curved relief surfaces	.39	
	→681.62.063.6 Fastening of printing surfaces (to the table or cylinder)	.4	Machines and equipment for the production of intaglio printing surfaces
.8	Equipment for reducing or enlarging copy. Pantographs	.41	Equipment for the preparatory processing of the plates
.9	Other mechanisms	.42	Equipment for the application of the printing surface. Copper plating installations
681.618	MACHINES AND EQUIPMENT FOR PRODUCTION OF NON-RELIEF PRINTING SURFACES	.43	Equipment for coating with emulsion and copying
	→655.224 Production of recessed, intaglio surfaces — Graphic industries. Printing. Publishing	.432	Emulsion coating equipment
	.226 Production of flat, planographic printing surfaces. Lithography	.434	Copying equipment
	.227 Production of diagraphic printing surfaces	.44	Equipment for transferring and developing
.1	Applicable to more than one printing process	.442	Transferring equipment
.12	Retouching tables	.443	Developing equipment
.13	Distribution formes and tables	.46	Etching equipment
.3	Machines and equipment for the production of planographic printing surfaces	.47	Engraving equipment
.31	Manually operated equipment	.48	Equipment for chromium plating and otherwise hardening the printing surface
.32	Machines and equipment for preparing the plates	.49	Other machines and equipment for the production of intaglio printing surfaces
		.5	Machines and equipment for the production of diagraphic printing surfaces (stencils and screens)
		.53	Equipment for the production of stencils for office duplicators
		.55	For the production of screens (e.g. silk screens).
		.6	Machines and equipment for the production of collotype printing surfaces
		.9	Machines and equipment for the production of other kinds of printing surfaces

681.62 Graphic reproduction machines. Printing machines. Auxiliary machinery for printing

	→655.3 Presswork — Graphic industries. Printing. Publishing	681.62.061.76	Plate cylinders with plates from other materials
	778.1 Photocopying — Photography and similar processes	.78	<i>[cancelled]</i> use 681.62.061.7;681.62.063.6
Special auxiliary subdivisions for 681.62		.79	Devices for removing and exchanging cylinders
681.62.06	DETAILS. COMPONENTS	.9	Other matters
681.62.061	PLATE CYLINDERS	.92	Cooling, heating and drying of the plate cylinders
.2	<i>[cancelled]</i> → 681.652.53	681.62.063	PRINTING MECHANISMS. FASTENING OF PRINTING SURFACES
.3	<i>[cancelled]</i> → 681.652.2/.5	.3	Platens
.4	<i>[cancelled]</i> → 681.652.3/.5	.4	Tables
.7	Plate cylinders	.45	Moving devices
.72	Flat or partly flat plate cylinders	.452	Moving devices with racks, and alternatively running sprockets, in opposite directions
.73	Plate cylinders with movable plates		
.74	Plate cylinders with plates in an endless band		
.75	Plate cylinders with lithographic stones		

681.62.063.453	Moving devices with racks and sprockets running in the same direction at the same time	681.62.066.2	Feeding individual sheets. Sheet feeders in general
.454	Moving devices with crank drive	.3	Sheet feeders with friction rollers, friction bands etc.
.455	Moving devices with carriage drive by motor or traction device	.32	Friction rollers and friction bands
.5	Impression cylinders. Rollers	.322	For separating the top sheet from a vertical stack of sheets
.52	Construction. Position	.323	For separating the bottom sheet from a vertical stack of sheets
.55	Drive	.324	Operating on circular stacks
.56	Catching devices	.33	Push buttons
.57	Devices for engaging or disengaging the cylinders at the base	.332	For continuous switching of the conveyor bands
.58	Hoists for impression cylinders	.333	For lifting off the combers
.6	Fastening of printing surfaces (to the bed or cylinder)	.34	Various details about combers
.62	Fixing type matter (forme) to the bed using a chase	.342	Combing bands, rollers or fingers for separating the top and bottom sheet of a pile
.63	Fixing type matter (forme) to the forme cylinder	.343	Printing bail arms and fingers
.64	Components for fixing plates (to the bed or cylinder)	.344	Padded fingers and padded rollers connected with combers
.65	Fixing curved rigid plates to the forme cylinder	.345	Separating the top and bottom sheets from an inclined or vertical stack by combers
.68	Fixing flexible plates to the bed or forme cylinder	.346	Stopping and locking the combers
.69	Fixing blankets	.347	Use of tongue in connection with combers
681.62.064	MECHANISMS FOR INKING AND DE-INKING THE PRINTING SURFACE	.39	Various devices
.1	Inking mechanisms in general	.4	Sheet feeders working from the roll
.2	Ink ducts. Ink reservoirs	.5	Sheet feeders with needles, metal brushes etc.
.23	Mechanisms for setting the inking roller carriage	.6	Suction devices for lifting off individual sheets
.26	Mechanisms for the movement of the reciprocating inking rollers, especially the ink distributing rollers	.62	The top sheet
.3	Actual inking devices	.622	By suction bars
.32	Brushes	.623	By individual suckers
.33	Capillary devices	.624	By suction drums, discs, rollers
.34	Endless bands. Ribbons	.63	The bottom sheet
.35	Pads	.632	By suction bars
.36	Discs. Plates	.633	By individual suckers
.37	Drums. Rollers. Cylinders	.634	By suction drums, discs, rollers
.4	Devices for pulverized and solid inks	.64	Special suction head formations
.5	Damping mechanisms	.652	Separating the sheets from an inclined or vertical stack
.6	Holding devices for the inker	.653	Use of suction and compressed air for separating the sheets
.7	Replacement of inkers	.654	Use of padded fingers, or combing rollers with suction and compressed air for separating the sheets
.8	Combinations of inkers	.655	Grippers combined with suckers for separating the sheets
.9	De-inking devices. Wipers etc.	.656	Oscillating suction arms for separating the sheets
.94	Devices for de-inking the printing surface. Wiping operations. Squeegee devices	.657	Suckers operating on circular stacks
681.62.066	MECHANISMS FOR FEEDING THE MATERIAL TO BE PRINTED	.7	Devices for raising, lowering, etc. the stack
.1	Feed from the roll in web form	.8	Automatic feed mechanisms for cards and envelopes
.12	With registration control	.9	Other details. Retarding devices. Sheet conveyors
.13	With web tension control. Roll brakes	.922	Retarding devices for sheet conveyors
.14	With roll drive	.923	Speed change mechanisms for sheet conveyors
.15	With devices for pasting on new web and changing webs	.924	Adjusting a sheet during conveying
.16	Reel stands	.925	Adjusting a sheet on the stack
.17	Devices for pressing on and smoothing down (the web on cylinder)	.926	Conveying the sheet on slide-ways by means of a carriage
.18	Rewinding devices		