SECTION B — PERFORMING OPERATIONS; TRANSPORTING

PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS

B41B MACHINES OR ACCESSORIES FOR MAKING, SETTING, OR DISTRIBUTING TYPE; TYPE; PHOTOGRAPHIC OR PHOTOELECTRONIC COMPOSING DEVICES (photographic devices in general G03)

Subclass	<u>index</u>		
HAND C	COMPOSING		1/00
_	NICAL COMPOSING		
	g prefabricated type; making type		
	asting the typeGRAPHIC COMPOSING	•••••	7/00, 9/00, 11/00
	nines composing lines prior to photography		15/00
	nines without means for composing lines prior to photography		
	ronic machines		
	pment for special work		
	ils of machines; auxiliaries		
	ATION OF RECORD CARRIERS OL, INDICATING, SAFETY		
COIVIRG	5E, INDICATINO, 5AI ETT	•••••••••••	2//00
1/00	Elements or appliances for hand composition;	5/10	• • for polishing or finishing type (polishing in
1 (00	Chases, quoins, or galleys	E /40	general B24B)
1/02	Printing letters; Type Out dusts as goods See as a substitute in the situation of	5/12	 for making type in the form of lines, e.g. by drawing or casting
1/04 1/06	Quadrats or quads; Spaces or other justifiers for appoint purposes.	5/14	for cutting spaces
1/08	 for special purposes for inserting latest news	3/14	for cutting spaces
1/10	for inserting latest newsfor inserting advertisements	7/00	Kinds or types of apparatus for mechanical
1/10	 for inserting advertisements for setting musical notations 		composition in which the type is cast or moulded
1/14	Composing rules, e.g. of brass	= 400	from matrices
1/16	• Reglets	7/02	• operating with fixed combinations of matrices
1/18	• Chases	7/04	(details B41B 9/00)for casting individual characters or spaces, e.g.
1/20	Quoins or other binding means	7704	"monotype" machines
1/22	 Composing tables; Type cases; Storage cabinets; Washing or cleaning devices therefor 	7/06	for composing, justifying, and casting complete lines of matrices, e.g. "monoline" machines
1/24	Washing or cleaning devices	7/08	 operating with separate matrices for individual
1/26	Composing or setting sticks		characters or spaces which are selected and
1/28	• Galleys		assembled (details B41B 11/00)
		7/10	 in which a line is composed of matrices and in which single types or spaces are cast, e.g. stringer
<u>Machine</u>	s or other mechanical apparatus for composing		type
2 /00	A consist of the constant of the constant	7/12	 in which a justified line is composed of matrices
3/00	Apparatus for mechanical composition using prefabricated type, i.e. without casting equipment		and a type line is cast in one piece
3/02	Mechanical composing machines using single types	7/14	• • • the matrices being composed by hand
3/02	or logotypes and having slide magazines therefor, e.g. flat, cylindrical, radial, single magazines	7/16	 the lines of matrices being composed and justified by machine operation, e.g. "linotype", "intertype" machines
3/04	Means for distributing type	7/18	• • • the matrices being guided by wires, e.g.
3/06	Justifying means	//10	"typograph" machines
5/00	Devices for making type or lines (for mechanical composition B41B 7/00, B41B 9/00, B41B 11/00)	9/00	Details of, or accessories for, machines for mechanical composition using fixed combinations of
E /02	• Matricos		and the form 12 day and a second and 14 d

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9/02

9/04

matrices from which type is cast or moulded

· Carriers for combinations of matrices, e.g. blocks,

Combinations of matrices

cylinders, wheels, bars

5/02

5/04

5/06

Matrices

Casting devices

5/08 • Tools or auxiliaries

mechanically operated

9/06	Mechanisms for effecting relative movements of	11/70	• • • for casting type-bars of special form, e.g. with
	matrix carriers and moulds for character or space selection	11/72	projections
9/08	Moulding or casting devices	11//2	 Devices for trimming type-bars; Cleaning devices for trimming knives; Ejectors for type-bars
9/10	• • Moulds	11/74	Devices for supplying molten metal
9/12	Justifying devices	11/76	• • • Pots (melting pots for casting stereotype plates
9/14	Supply devices for molten metal		B41D 3/20)
9/16	 Devices for handling type after casting 	11/78	 • • movable towards, and away from, mould
9/18	 Ejector mechanisms 	11/80	 • • with stirrers or means for removing dross
9/20	• • Trimming devices	11/82	• • • associated with mechanisms for introducing metal in solid form
11/00	Details of, or accessories for, machines for mechanical composition using matrices for	11/84	• • • • Throats or mouthpieces; Wipers for mouthpieces
	individual characters which are selected and assembled for type casting or moulding	11/86	• • • Heaters for pots; Temperature-control
11/02	Matrices	11/88	devices• Pumps; Stop-motions or safety devices therefor
11/04	Space bands	11/00	 Arrangements or devices for distributing matrices or
11/06	Storage devices for matrices or space bands	11/30	space bands after casting or moulding
11/08	Magazines for matrices	11/92	 Second elevators
11/10	• • for composing by hand	11/94	Screw conveyors
11/12	 • • Attachment of magazines to machines; 	11/96	 Devices for cooling or cleaning matrices
	Magazine-selection or magazine-shift mechanisms (controlling selection or shifting B41B 27/42)		
11/14	• • • with escapement devices	Photogra	aphic or photoelectronic composing devices
11/16	Boxes for space bands; Escapements or guides for releasing space bands	13/00	Equipment specially adapted for photographing mounted characters or the like, e.g. advertisements,
11/18	 Devices or arrangements for assembling matrices and 		lines
	space bands (control devices therefor B41B 27/44)	13/02	 the characters being composed or mounted by hand,
11/20	Assembler guide channels	15.40.4	and photographed simultaneously
11/22	 Assembler cover plates or framework 	13/04	with means for justifying
11/24	 Belt conveyors co-operating with assembler 	13/06	• • • by elastic or extensible type-line carriers
	guides	13/08	• • • by optical line correction
11/26	 Devices for feeding or guiding space bands into association with matrices 	13/10	• the characters being progressively photographed one by one
11/28	 Star wheels or other stacking devices for matrices and space bands; Guides associated therewith 	15/00	Photographic composing machines with movable character carriers for composing lines of characters
11/30	 Assembler elevators or associated mechanisms, 		prior to photography
	e.g. braking devices, retaining pawls, line	15/02	 with means for photographing complete lines
11/32	resistants, delivery slides	15/04	 and with carriers for individual characters
11/34	 Transfer channels or line-delivery carriages First elevators or associated mechanisms	15/06	• • and with carriers for complete sets of characters,
11/36	 for presenting matrices or space bands directly to 		e.g. slidable elongated members, rotary wheels
	moulds	15/08	 with means for photographing composed characters in succession
11/38	Devices for aligning or clamping lines of matrices and space bands.	15/10	• Details
11/40	and space bands	15/12	 Character carriers; Cleaning devices therefor
11/40 11/42	Jaw clamps; Operating devices thereforfor quadding and centring	15/14	• • with a single character, or with combinations of
11/44	• • • for justifying		different styles of a single character
11/46	Aligning devices	15/16	 • with combinations of different characters
11/48	 Cleaning devices for aligning jaws (cleaning matrices B41B 11/96) 	15/18	 • • with parts of characters for building up complex characters, e.g. oriental characters
11/50	 Vice frames; Devices for releasing or locking 	15/20	• • Devices for handling or storing character carriers
11/52	Moulding or casting devices or associated	15/22	• • • Magazines
117.52	mechanisms	15/24	• • • for justifying purposes
11/54	 Moulds; Liners therefor 	15/26	for repeating a character
11/56	• • Mould wheels; Slides or driving gear therefor	15/28	• • Photographic devices (in general G03)
11/58	• • • with locking wedges	15/30	• • • Composing cameras
11/60	• • • adjustable or removable	15/32	• • • Film-handling mechanisms
11/62	• • • with interchangeable moulds	15/34	Adjusting enlargement or register; Correcting oxposure time
11/64	• • • with a series of moulds and mechanism for		exposure time
	selecting individual moulds	17/00	Photographic composing machines having fixed or
11/66	 • mounted on reciprocable carriages 		movable character carriers and without means for
11/68	 • with provision for adjusting length or width of slot; with a plurality of slots 		composing lines prior to photography

17/02	• with manually-adjustable character carriers to enable characters to be photographed in succession	21/32	• Film carriers; Film-conveying or -positioning devices (film-handling means in line-composing
17/04	 with a carrier for all characters in at least one fount 		photographic devices B41B 15/32; machines with
17/06	with an adjustable carrier		means for moving the film in its plane for
17/08	with a fixed carrier		photographing characters in succession B41B 17/16)
17/10	 with a continuously-movable carrier 	21/34	 with positioning mechanisms
17/12	 with means for moving the optical path for 	21/36	 for feeding films stepwise in line direction
	photographing characters, e.g. intermittently	21/38	• • • for feeding films continuously in line direction
17/14	• • continuously	21/40	 for line spacing
17/16	 with means for moving the film in its plane for 	21/42	 for subscript or superscript notation
	photographing characters in succession	21/44	 adjustable for enlarging purposes
17/18	• Details	22.400	
17/20	 Character carriers; Cleaning devices therefor 	23/00	Auxiliary devices for modifying, mixing, or
17/22	• • with a single character; with a single character		correcting text or layout in connection with photographic or photoelectronic composing
	in more than one style	23/02	 for mixing by line-by-line projection of parts of texts
17/24	• • with all characters	23/02	from a number of films on to another
17/26	• • • on belts	23/04	for facilitating hand correction of texts
17/28	• • • on polygonal rods	23/04	 for racintating hand correction of texts for correcting texts by removing incorrect lines from
17/30	• • • on a sheet of square or rectangular shape	23/00	one film and splicing-in corrected lines from another
17/32	• • • on a flat disc		film
17/34	• • • on a cylinder		••••
17/36	• • with selection indicators		
17/38	• • with means for indicating the width		record carriers used for controlling composing
17/40	• • • in caliper form		s; Control, indicating, or safety devices or systems for
17/42	• • • • in coded form	<u>composii</u>	ng machines of various kinds or types
177 I -	coucu ro	25/00	Apparatus specially adapted for preparation of
19/00	Photoelectronic composing machines [3]	23/00	record carriers for controlling composing machines
19/01	 having electron-beam tubes producing an image of at least one character which is photographed [3] 		(for casting individual characters or spaces, e.g. in "monotype" machines, B41B 7/04; methods for marking
19/02	 the characters appearing on the screen in succession [3] 		or reproducing record carriers having digital data thereon in general G06K 1/00)
19/04	• • • at the same place [3]	25/10	 incorporating devices for line justification, e.g.
19/06	 • at different predetermined places [3] 		counting and indicating devices for length of line
19/08	• • with combinations of characters appearing on the screen at the same time [3]	25/12	 comprising elements which circulate from and to magazines
19/10	• • • in unbroken lines or columns [3]	25/14	 operating without space bands
19/12	• • • in broken lines or columns [3]	25/16	 using a binary code for the width of the matrices
19/14	• • • and presenting a text of more than one line [3]	25/18	 combined with type-setting machines
19/16	Character carriers associated with electron-beam	25/20	 Auxiliary devices; Devices serving special purposes
	tubes [3]	25/22	 for indicating length of line
		25/24	for error correction
21/00	Common details of photographic composing	25/26	 for changing the fount of type
	machines of the kinds covered in groups B41B 17/00		
21 /02	and B41B 19/00	27/00	Control, indicating, or safety devices or systems for
21/02	Shutters in optical systems (in general G03B)		composing machines of various kinds or types
21/04	• • for selecting characters		(computers in general G06F)
21/06	for adjusting exposures	27/02	Systems for controlling all operations
21/08	Light sources; Devices associated therewith, e.g.	27/04	• • Keyboards
21/10	control devices	27/06	 operable by input of recorded or stored
21/10	Single light sources	a= /aa	information, e.g. on punched tapes
21/12	Stroboscopic light sources	27/08	• • • from several sources
21/14 21/16	 Combinations of light sources Optical systems (shutters B41B 21/02; light sources 	27/10	 with direct control of all operations by input of recorded or stored information
04 /40	B41B 21/08)	27/12	• • on tapes
21/18	defining a single optical path	27/14	• • • on punched tapes
21/20	• • • with means for moving stepwise	27/16	• • • on magnetic tapes
21/22	• • • with means for moving continuously	27/18	• • • from memory devices
21/24	defining multiple optical paths	27/20	• • • from electromagnetic devices, e.g. memory
21/26	• • • with means for selecting individual optical		matrices
	paths (means for moving the optical path	27/22	• • • from several sources
21/20	B41B 17/12)	27/24	of several associated machines
21/28	• • • with means for fount selection • Floctron beam tubes or characterus (in general)	27/26	• • with means for temporarily arresting input of
21/30	• Electron-beam tubes or charactrons (in general H01J 31/00)		recorded or stored information to introduce time delays

27/28	 Control, indicating, or safety devices for individual operations or machine elements (in devices for supplying molten metal B41B 11/86, B41B 11/88; for light sources B41B 21/08) 	 Printing mechanisms coupled to typographical composing machines for controlling selection of shifting of matrix magazines
27/30	 for arresting or varying speed of one operation in response to failure or variation in speed of another 	• • for controlling assembly of matrices and space bands
	operation	27/46 • • • for controlling insertion of space bands (for line
27/32	 for line-justification operations 	justification B41B 27/32)
27/34	 • without the use of space bands 	27/48 • • for deleting errors or inserting corrections
27/36	using electronic devices	(devices, non-fluid media or methods for
27/38	 for measuring length of composed lines; for reading composed characters 	cancelling or correcting errors in typewriters or selective printing mechanisms B41J 29/26)
27/40	for proof-printing operations	27/50 • • operated by coupled machines
	r r G r	• • •

B41C PROCESSES FOR THE MANUFACTURE OR REPRODUCTION OF PRINTING SURFACES (photomechanical processes for producing printing surfaces G03F; photoelectrical processes for producing printing surfaces G03G)

1/00 1/02	 Forme preparation Engraving; Heads therefor (recording on record carriers, heads therefor G11B) [5] Note(s) 	1/10	 for lithographic printing; Master sheets for transferring a lithographic image to the forme (B41C 1/055 takes precedence; neutralising or similar differentiation treatments of lithographic printing formes B41N 3/08) [5]
	Attention is drawn to the title of class B41 and to	1/12	Multicolour formes
	subclass H04N, in particular to the Notes following the title of that subclass and to group H04N 1/00.	1/14	 for stencil printing or silk-screen printing (B41C 1/055 takes precedence) [5]
1/04	 using heads controlled by an electric information signal 	1/16	• Formes with areas rendered ink-resistant by covering with an amalgam; Printing plates for amalgam
1/045	• • • Mechanical engraving heads [5]		printing [5]
1/05	Heat-generating engraving heads, e.g. laser beam, electron beam [5]	1/18	Curved printing formes or printing cylinders
1/055	Thermographic processes for producing formes	3/00	Reproduction or duplicating of printing formes
17 000	(B41C 1/02 takes precedence) [5]	3/02	 Stereotyping (casting stereotype plates
1/06	• Transferring (B41C 1/10, B41C 1/18 take		B41D 3/00) [2]
1,00	precedence) [5]	3/04	 to produce rubber printing blocks
1/08	by embossing, e.g. with a typewriter (typewriters	3/06	 to produce printing blocks from plastics
	adapted therefor B41J 3/38)	3/08	 Electrotyping; Application of backing layers thereon [5]

APPARATUS FOR THE MECHANICAL REPRODUCTION OF PRINTING SURFACES FOR STEREOTYPE PRINTING; SHAPING ELASTIC OR DEFORMABLE MATERIAL TO FORM PRINTING SURFACES (marking or **B41D** engraving metal by the action of a high concentration of electric current B23H 9/06; type, machines, or accessories for making, setting, or distributing type B41B; processes for the manufacture or reproduction of printing surfaces B41C; machines or apparatus for engraving in general, or for embossing B44B 3/00, B44B 5/00; chemical etching of metal C23F 1/00; electrolytic etching C25F 3/00; photomechanical reproduction G03F)

5/04 • of flat plates

1/00	Preparing or treating stereotype matrices	3/06 • • Vertical moulds
1/02	 using brushes 	3/08 • Moulds, e.g. horizontal, for casting tubular, i.e.
1/04	 using cylinders or rollers 	cylindrical, plates
1/06	 using presses, e.g. toggle or like lever-and-link type 	3/10 • • Vertical moulds
	presses	 3/12 • Multiple-mould stereotype casting machines
1/08	 using hydraulic presses 	3/14 • Details
1/10	 Performing secondary operations on matrices 	3/16 • • Matrix clamps
1/12	 Humidifying or moistening 	3/18 • • Devices for closing or opening moulds
1/14	• • Drying	3/20 • • Melting pots
		3/22 • • • with pumps for conveying the molten metal into the casting chambers or boxes
<u>Producin</u>	g printing surfaces	3/24 • • • with control valves
3/00	Casting stereotype plates; Machines, moulds, or	3/26 • • • with devices for stirring the molten metal
3/00	devices therefor	3/28 • • Devices for cooling the moulds
3/02	 Horizontal moulds for casting flat plates 	5/00 Working, treating, or handling stereotype plates
3/04	 Moulds, e.g. horizontal, for casting curved, e.g. semi- 	5/02 • by bending
	cylindrical, plates	5/04 • of flat plates

5/06 • of curved plates

7/00 Shaping elastic or deformable material, e.g. rubber, plastics material, to form printing surfaces (making rubber printing blocks B41C 3/04)

7/02 • by impression

 Forming printing surfaces by covering printing forms with a thin elastic skin, e.g. rubber foil, and retaining the latter thereon; Obtaining reduced or enlarged printing surfaces by using thin elastic transfer foils (pantographic instruments for copying, reducing, or enlarging B43L 13/10)

99/00 Subject matter not provided for in other groups of this subclass [2006.01]

PRINTING MACHINES OR PRESSES (machines for manufacturing footwear incorporating printing or embossing apparatus A43D, e.g. A43D 8/26, A43D 95/14; presses in general B30B; making of printing surfaces B41C, B41D; manifolding devices, office printing machines B41L; stencilling B41L; printing processes not dependent on the use of special machines B41M; duplicating or marking by sublimation or volatilisation of design B41M 5/035; thermography B41M 5/26; embossing decorations or marks B44B 5/00; handling thin or filamentary material B65H; electrography, electrophotography, magnetography G03G) [4]

7/04

Note(s)

Attention is drawn to Notes (1) and (2) following the title of subclass B41L.

Subclass index

PLATEN PRESSES	1/00
CYLINDER PRESSES	3/00
ROTARY MACHINES	
Letterpress, lithographic, intaglio machines	5/00, 7/00, 9/00
Other machines; combined machines	11/00, 17/00, 19/00
Details	13/00
Screen printers	15/00
Transfer printing machines	16/00
DETAILS	
Handling sheets or other surfaces to be printed; treating such surfaces	
Attaching printing elements; make-ready arrangements, impression or offset surfaces; inking	27/00, 30/00, 31/00
Auxiliary devices; cleaning	33/00, 35/00

1/00	Platen presses, i.e. presses in which printing is
	effected by at least one essentially-flat pressure-
	applying member co-operating with a flat type-bed

- 1/02 Hand-operated platen presses
- 1/04 for mono-impression printing, e.g. on sheets
- with platen maintained parallel to bed during movement (preparing stereotype matrices using presses B41D 1/06)
- 1/08 • on webs
- for multi-impression printing in one or more colours, e.g. on webs
- 1/12 • on sheets
- 1/14 • using swinging platens, or forme supports
- 1/16 for offset printing
- 1/18 for lithography
- 1/20 for perfecting sheets, i.e. for printing on both sides of
- 1/22 specially adapted for printing heads, e.g. letter heads
- 1/24 specially adapted for proof printing
- 1/26 Details
- 1/28 Sheet-conveying, -aligning or -clamping devices (in general B65H)
- 1/30 • using rotary grippers
- 1/32 • using air pressure, e.g. vacuum
- 1/34 • Registering devices, e.g. gauges
- 1/36 • Clamps for conveying sheets and for holding same on the platens

- 1/38 • Platens or type-beds
- 1/40 • Inking units
- 1/42 • using flat inking elements, e.g. discs
- 1/44 • using inking ribbons
- 1/46 • using rollers
- 1/48 • pivoting around the platen or base
- 1/50 • supported on carriages for movement in or on runways
- 1/52 • Carriage driving gear
- 1/54 • Printing-pressure control devices
- 1/56 • Auxiliary devices
- 1/58 • Arrangements of counting devices for counting sheets
- 1/60 • Safety devices
- 1/62 • for preventing injury to operator
- 1/64 • to the hands of the operator
- 1/66 • responsive to incorrect operating conditions

3/00 Cylinder presses, i.e. presses essentially comprising at least one cylinder co-operating with at least one flat type-bed

- 3/02 with impression cylinder or cylinders rotating unidirectionally
- 3/04 • intermittently; Stop-cylinder presses
- 3/06 • continuously
- 3/08 • Single-revolution presses
- 3/10 • Two-revolution presses

3/12	• • Twin presses, i.e. with more than one cylinder or	5/04	• for printing on webs
	type-bed	5/06	 with several printing units in sequential
3/14	with impression cylinder or cylinders rotating in		arrangement
5 / 4 6	opposite directions during each working cycle	5/08	• • with several printing units in both superimposed
3/16	Twin presses, i.e. with more than one cylinder or	= /40	and sequential arrangement
2/10	type-bedof special construction or for particular purposes	5/10	• • with several printing units arranged side by side
3/18		5/12	• for printing on one side and on the other side of
3/20	 with fixed type-beds and travelling impression cylinders 		webs between the same forme and impression cylinders
3/22	• • with more than one type-bed	5/14	 with several impression cylinders arranged around
3/24	• • with cylinders travelling around type-beds	3/14	a forme cylinder
5/24	having upper and lower printing surfaces	5/16	for multicolour printing
3/26	 with type-beds and impression cylinders 	5/18	using one impression cylinder co-operating
	simultaneously movable relative to one another		with several forme cylinders
3/28	 Proof-print presses for relief printing, lithography 	5/20	 specially adapted for proof printing
	or intaglio printing, i.e. presses for checking	5/22	 for indirect printing [3]
	accuracy of printing surfaces	5/24	 for flexographic printing [3]
3/30	 for lithography (proof-print presses B41F 3/28) 	=	
3/32	• • Damping devices	7/00	Rotary lithographic machines
3/34	• • • for offset printing	7/02	for offset printing
3/36	for intaglio or heliogravure printing (proof-print PAGE 2002)	7/04	• using printing units incorporating one forme
2/20	presses B41F 3/28)		cylinder, one transfer cylinder, and one impression cylinder, e.g. for printing on webs
3/38	• • • Wiping mechanisms	7/06	 • for printing on sheets
3/40	 for perfecting sheets, i.e. for printing on both sides thereof 	7/08	 using one transfer cylinder co-operating with
3/42	for multicolour printing on sheets	7700	several forme cylinders for printing on sheets or
3/44	for monocolour or multicolour printing on one		webs, e.g. sampling of colours on one transfer
5/ 44	side of webs, or for perfecting webs, i.e.		cylinder
	monocolour or multicolour printing on both sides	7/10	 using one impression cylinder co-operating with
	of webs		several transfer cylinders for printing on sheets or
3/46	 Details 		webs, e.g. satellite-printing units
3/48	 Press frames 	7/12	• using two cylinders one of which serves two
3/51	 Type-beds; Supports therefor (B41F 3/52 take 		functions, e.g. as a transfer and impression cylinder in perfecting machines
	precedence) [3]	7/14	with two or more impression cylinders coacting
3/52	Apparatus for cooling, heating, or drying printing	//14	with a single transfer cylinder
D /E 4	surfaces [3]	7/15	• • for printing on more than one web
3/54	 Impression cylinders; Supports therefor (blankets or like coverings B41N 10/00) 		simultaneously [6]
3/56	Devices for adjusting cylinders relative to type-	7/16	• for printing on non-deformable material, e.g. sheet
3/30	beds and setting in adjusted position		metal
3/58	Driving, synchronising, or control gear	7/18	 specially adapted for proof printing
3/60	• • • for type-beds	7/20	• Details
3/62	• • • Applications of linkwork or gearing for	7/24	 Damping devices
	producing reciprocatory or angular motion	7/26	• • • using transfer rollers [3]
3/64	• • • • of crank motions	7/28	• • • using brushes
3/66	• • • • of rack-and-pinion gearing	7/30	using spraying elements
3/68	• • • • • with pinion rotating unidirectionally	7/32	• • Ducts, containers, or like supply devices for
3/70	 • • • Applications of directly-coupled motors 	7/04	liquids
3/72	• • • • of fluid motors	7/34	• • Endless bands
3/74	 • • • Applications of clutches 	7/36	 Inking-rollers serving also to apply ink repellent
3/76	 • • • Applications of braking devices or of 	7/37	• with supercooling for condensation of air
	devices for stopping type-bed in registered	7737	moisture (cooling forme or impression
D /==	position		cylinders B41F 13/22) [6]
3/78	• • • • Air cushions	7/38	Absorbent pads
3/80	• • • for impression cylinders	7/40	• • Devices for tripping or lifting damping rollers;
3/81	• • Inking units [3]		Supporting, adjusting, or removing
3/82	Auxiliary devices		arrangements therefor (such arrangements or
3/84	Arrangements of counting devices (in printing machines in general B41E 33/02) [2]		devices for inking rollers B41F 31/30)
3/86	machines in general B41F 33/02) [2] • Numbering devices	9/00	Rotary intaglio printing presses
5/00	manipering devices	9/01	• for indirect printing [3, 5]
			I U = 7 = 3

Rotary machines

6

5/00 **Rotary letterpress machines**

5/02 • for printing on sheets Details

for multicolour printing

• specially adapted for proof printing

9/01 9/02

9/04

9/06

9/10	• • • with doctors, scrapers, or like devices	• Auxiliary folding, cutting, collecting, or depositing of
9/12	• • • with absorbent pads	sheets or webs (in general B26D, B65H; gathering
9/14	• • • with continuous flexible surfaces, e.g. endless	sheets or signatures in bookbinding B42C 1/00)
	bands	13/56 • • Folding or cutting
9/16	Removing or recovering ink from wiping	13/58 • • • lengthwise
	mechanisms	13/60 • • crosswise
9/18	 Auxiliary devices for exchanging forme cylinders 	13/62 • • • Folding-cylinders or drums
11/00	Datawa nyassas ay mashinas having farma salindays	13/64 • • Collecting
11/00	Rotary presses or machines having forme cylinders carrying a plurality of printing surfaces, or for	13/66 • • • and stapling
	performing letterpress, lithographic, or intaglio	13/68 • • Adding inserts
	processes selectively or in combination	13/70 • • Depositing
11/02	• for securities (security printing B41M 3/14) [3]	
11/02	for securities (security printing D+1W1 5/14) [5]	15/00 Screen printers (for selective printing B41J 2/005)
13/00	Common details of rotary presses or machines	15/02 • Manually-operable devices
13/004	• Electric or hydraulic features of drives [6]	15/04 • • for multicolour printing
13/008	• Mechanical features of drives, e.g. gears, clutches [6]	15/06 • • with auxiliary equipment, e.g. for drying printed
	Taking-up backlash [6]	articles
13/016	Brakes [6]	15/08 • Machines
13/010	Conveying or guiding webs through presses or	15/10 • • for multicolour printing
15/02	machines (web handling in general B65H, e.g. step-	15/12 • • with auxiliary equipment, e.g. for drying printed
	by-step advancement B65H 20/00, turning or	articles
	reversing B65H 23/32)	15/14 • Details
13/03	Threading webs into printing machines [6]	15/16 • • Printing tables
13/04	intermittently	15/18 • • • Supports for workpieces
13/04	Turning-bar arrangements	15/20 • • • with suction-operated elements
13/08		15/22 • • • for single sheets
	• Cylinders	15/24 • • • • for webs
13/10	• • Forme cylinders	15/26 • • • for articles with flat surfaces
13/11	• • • Gravure cylinders [6]	15/28 • • • • for elongated flat articles, e.g. strips, bands
13/12	Registering devices	
13/14	• • • with means for displacing the cylinders	15/30 • • • • for articles with curved surfaces
13/16	 • • with means for displacing the printing 	15/32 • • • for articles with conical surfaces
	formes on the cylinders	15/34 • • Screens; Frames; Holders therefor
13/18	 Impression cylinders 	15/36 • • • flat
13/187	• • • for rotogravure [6]	15/38 • • • curved
13/193	 Transfer cylinders; Offset cylinders [6] 	15/40 • • Inking units
13/20	 Supports for bearings or supports for forme, offset, 	15/42 • • • comprising squeegees or doctors
	or impression cylinders	15/44 • • Squeegees or doctors (doctors of rotary intaglio
13/21	• • • Bearer rings [6]	printing presses B41F 9/10)
13/22	 Means for cooling or heating forme or impression 	15/46 • • • with two or more operative parts
	cylinders	
13/24	 Cylinder-tripping devices; Cylinder-impression 	16/00 Transfer printing apparatus (apparatus or machines
	adjustments	for applying decalcomanias B65C) [4]
13/26	 Arrangement of cylinder bearings 	16/02 • for textile material [4]
13/28	 • • • Bearings mounted eccentrically of the 	17/00 Printing apparatus or machines of special types or
	cylinder axis	for particular purposes, not otherwise provided for
13/30	• • • Bearings mounted on sliding supports	(hand stamps, plier-like tools for printing or punching
13/32	 • • • Bearings mounted on swinging supports 	tickets or the like B41K; addressing machines or other
13/34	• • Cylinder-lifting or -adjusting devices	office printing equipment B41L; coding or marking of
13/36	• • • Cams, eccentrics, wedges, or the like	packaging material or of completed packages in
13/38	• • • electrically or magnetically operated	packaging machines B65B 61/00; ticket-printing and
13/40	• • • fluid-pressure operated	issuing apparatus G07B)
13/42	Guards or covers, e.g. for preventing ingress or	17/02 • for printing books or manifolding sets
13/42	egress of foreign matter	17/04 • for printing calendars
13/44	Arrangements to accommodate interchangeable	17/08 • for printing on filamentary or elongated articles or
13/44	cylinders of different sizes to enable machine to print	material, or on articles with cylindrical surfaces
	on areas of different sizes	17/10 • • on articles or material of indefinite length, e.g.
13/46	Printing units for inserting latest news	wires, hoses, tubes or yarns
13/48	-	17/12 • • • at an angle to axis
13/48	 Arrangements to enable printing to be effected over selected areas of a single forme cylinder (by inking 	17/13 • • • for printing on rolls of material, the roll serving
	selected areas of a single forme cynnder (by mking selected areas B41F 31/18)	as impression cylinder, e.g. strip
13/50	 by effecting relative movement of forme and 	printers [2009.01]
13/30	impression cylinders during printing cycle	17/14 • • on articles of finite length
10/50		17/16 • • • on end or bottom surfaces thereof
13/52	 by projecting and retracting parts of the surface of the forme cylinder 	17/18 • • • on curved surfaces of articles of varying cross-
	the forme cymider	section, e.g. bottles, lamp glasses
		section, e.g. volues, tamp glasses

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17/20	• • • on articles of uniform cross-section, e.g.	27/02	Magnetic devices
	pencils, rulers, resistors	27/04	 for attaching printing elements to flat type-beds
17/22	• • • by rolling contact	27/06	 for attaching printing elements to forme cylinders
17/24	 for printing on flat surfaces of polyhedral articles 	27/08	 for attaching printing formes to flat type-beds
17/26	by rolling contact	27/10	 for attaching non-deformable curved printing formes
17/28	 for printing on curved surfaces of conical or frusto- 		to forme cylinders
	conical articles	27/12	 for attaching flexible printing formes
17/30	 for printing on curved surfaces of essentially 	27/14	 for attaching printing formes to intermediate
.=	spherical, or part-spherical, articles		supports, e.g. adapter members
17/32	• • on lamp bulbs	30/00	Devices for attaching coverings or make-ready
17/34	on articles with surface irregularities, e.g. fruit, nuts	30700	devices; Guiding devices for coverings (make-ready
17/36	for printing on tablets, pills, or like small articles		devices B41N 6/00; blankets or like coverings
17/38	for printing on knitted fabrics		B41N 10/00) [5]
17750	for princing on kinteed tubiles	30/02	 attaching to impression cylinders [5]
19/00	Apparatus or machines for carrying out printing	30/04	 attaching to transfer cylinders [5]
	operations combined with other operations (auxiliary	30/06	 attaching of endless or like continuously-fed
	perforating apparatus associated with printing devices		coverings [5]
	B41G 7/00; coding or marking in association with packaging B65B 61/00; label dispensers having printing	31/00	Inking arrangements or devices (inking units for
	equipment B65C) [2]	31/00	platen presses B41F 1/40; inking units for cylinder
19/02	with embossing (printing with a printer's forme		presses B41F 3/81; applying liquids or other fluent
15702	combined with embossing B41M 1/24)		materials to surfaces, in general B05; for typewriters or
19/04	using intaglio printing formes and wipers		selective printing mechanisms B41J)
19/06	Printing and embossing between a negative and a	31/02	Ducts, containers, supply or metering devices (level
	positive forme after inking and wiping the	D4 (0D	control in general G05D 9/00) [3]
	negative forme; Printing from an ink band treated	31/03	• • Ink agitators [6]
10.100	with colour or "gold"	31/04	with duct-blades or like metering devices
19/08	Simultaneous moulding and printing	31/05 31/06	• Positioning devices therefor [6]• Troughs or like reservoirs with immersed, or
		31/00	partly immersed, rollers or cylinders
Common	details of printing machinery	31/07	• • • for rotogravure [6]
		31/08	with ink-ejecting means, e.g. pumps, nozzles
21/00	Devices for conveying sheets through printing	31/10	 Applications of feed or duct rollers (messenger or
	apparatus or machines (through platen presses	0-1, -0	moving transfer rollers B41F 31/14)
	B41F 1/28; feeding sheets to or from printing apparatus or machines B65H)	31/12	 adjustable for regulating supply
21/02	• Pins [3, 5]	31/13	 Means for driving fountain rollers [6]
21/04	• Grippers [3, 5]	31/14	 Applications of messenger or other moving
21/05	• • In-feed grippers [3, 5]		transfer rollers
21/06	Suction-operated grippers	31/15	 Devices for moving vibrator-rollers [6]
21/08	Combinations of endless conveyors and grippers	31/16	 Continuous, e.g. endless, band apparatus
21/10	 Combinations of transfer drums and grippers [3] 	31/18	for inking selected parts of printing formes
21/12	 Adjusting leading edges, e.g. front stops [3] 	31/20	Ink-removing or collecting devices
21/14	 Adjusting lateral edges, e.g. side stops [3] 	31/22	for inking from interior of cylinder
22 / 22		31/24	Absorbent pads
22/00	Means preventing smudging of machine parts or printed articles (B41F 23/00 takes precedence) [6]	31/26	 Construction of inking rollers (inking-rollers serving also to apply ink repellent in rotary lithographic
	printed articles (B41F 25/00 takes precedence) [0]		machines B41F 7/36)
23/00	Devices for treating the surfaces of sheets, webs, or	31/28	Spray apparatus, e.g. containing brushes
	other articles in connection with printing (cleaning in	31/30	Arrangements for tripping, lifting, adjusting, or
	general B08B; as a final step in the manufacture of such		removing inking rollers; Supports, bearings, or forks
	articles, <u>see</u> appropriate subclasses, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; surface treatment in		therefor
	general, see the relevant places, e.g. applying liquids or	31/32	• Lifting or adjusting devices (for damping rollers
	other fluent materials B05, of metals C23G)	24 (24	B41F 7/40)
23/02	by dampening (in rotary lithographic machines	31/34	• • • Cam, eccentric, wedge, or like devices
	B41F 7/24)	31/36	• • • fluid-pressure operated
23/04	 by heat drying, by cooling, by applying powders 	31/38	• • • magnetically operated
23/06	 Powdering devices, e.g. for preventing set-off 	33/00	Indicating, counting, warning, control, or safety
23/08	 Print-finishing devices, e.g. for glossing prints 		devices (arrangements of counting devices in platen
25/00	Daviese for pressing sheets average		presses B41F 1/00, in cylinder presses B41F 3/84, in
25/00	Devices for pressing sheets or webs against cylinders, e.g. for smoothing purposes (apparatus for taking-out		typewriters or selective printing mechanisms
	curl from webs in general B65H 23/34)		B41J 29/20; ink supply or metering devices B41J 31/02; such devices in general, <u>see</u> the relevant subclasses, e.g.
			counting in general G06M) [3]
27/00	Devices for attaching printing elements or formes to	33/02	 Arrangements of indicating devices, e.g. counters [2]
	supports (attaching by chemical means B41N 6/00) [5]	-	G 5, 1.0. 111 30-0 [-]

33/04	 Tripping devices or stop-motions (cylinder-tripping devices of rotary presses or machines B41F 13/24; arrangements for tripping inking rollers 	 Automatic control of tripping devices by feelers, photoelectric devices, pneumatic devices, or other detectors
	B41F 31/30) [2]	• Programming systems for automatic control of
33/06	 for starting or stopping operation of sheet or web 	sequence of operations
	feed	33/18 • Web break detection (B41F 33/04 takes
33/08	 for starting or stopping operation of cylinders 	precedence) [6]
33/10	 for starting or stopping operation of damping or 	
	inking units	35/00 Cleaning arrangements or devices
33/12	 for starting or stopping the machine as a whole 	35/02 • for forme cylinders
		35/04 • for inking rollers
		35/06 • for offset cylinders

B41G APPARATUS FOR BRONZE PRINTING, LINE PRINTING, OR FOR BORDERING OR EDGING SHEETS OR LIKE ARTICLES; AUXILIARY APPARATUS FOR PERFORATING IN CONJUNCTION WITH PRINTING (perforating in general B26D; production of decorations B44C; perforating in conjunction with sheet or web delivery B65H 35/00; folding or unfolding thin material, e.g. sheets, webs, B65H 45/00, B65H 47/00)

1/00	Apparatus for bronze printing or for like operations (applying granular materials or metallic foils for decorative purposes B44C 1/00)	5/00	Apparatus for bordering or edging sheets or like articles, e.g. for producing black rims on mourning cards
1/02 1/04	platen typecylinder type	7/00	Auxiliary perforating apparatus associated with printing devices (apparatus or machines for carrying
3/00	Apparatus for printing lines		out printing operations combined with operations other than perforating B41F 19/00)

TYPEWRITERS; SELECTIVE PRINTING MECHANISMS, i.e. MECHANISMS PRINTING OTHERWISE THAN FROM A FORME; CORRECTION OF TYPOGRAPHICAL ERRORS (composing B41B; printing on special surfaces B41F; laundry marking B41K; erasers, rubbers or erasing devices B43L 19/00; fluid media for correction of typographical errors by coating C09D 10/00; recording the results of measuring G01; recognition or presentation of data, marking record carriers in digital fashion, e.g. by punching, G06K; franking or ticket-printing and issuing apparatus G07B; electric keyboard switches, in general H01H 13/70, H03K 17/94; coding in connection with keyboards or like devices, in general H03M 11/00; receivers or transmitters for transmission of digital information H04L; transmission or reproduction of documents, or the like, e.g. facsimile transmission, H04N 1/00; printing mechanisms specially adapted for apparatus, e.g. cash registers, weighing machines, producing records of their own performance, see the relevant subclasses)

Note(s)

- 1. This subclass <u>covers</u>:
 - manually controlled power-operated apparatus or apparatus of this type with additional control by input of recorded information, e.g. on punched cards or tapes;
 - the "print-out" features of apparatus controlled by record carriers or electric signals in so far as these are of general interest, e.g.
 impression, inking, line-spacing mechanisms, printing heads.
- 2. This subclass <u>does not cover</u>:
 - electrical features of apparatus controlled by record carriers or electric signals and of interest apart from the "print-out" features of said apparatus;
 - apparatus controlled by record carriers or electric signals, as a whole.
- 3. In this subclass, the following term is used with the meaning indicated:
 - "paper" covers also similar flexible copy material;
 - "printing material" covers both paper and temporary record carriers from which records are transferred to a paper, but does not
 cover printing masters, e.g. formes.

Subclass index

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KINDS OF APPARATUS	
characterised by the mounting, arrangement, or disposition of the types or dies	1/00
characterised by the printing or marking process for which they are designed	2/00
characterised by the purpose	3/00
COMMON DETAILS OR ACCESSORIES	
Character selection	5/00, 7/00
Hammer impression	9/00
Supporting or handling copy or duplicating material	11/00-15/00
Transfer material	
of page-width	17/00
in ribbon form; ink ribbon cartridges	31/00, 33/00, 35/00, 32/00

Inking	27/00
Spacing	
Drives	
Particular operations	
Others	
	,,

Kinds of typewriters or of selective printing mechanisms

1/00	Typewriters or selective printing mechanisms			
	characterised by the mounting, arrangement, or			
	disposition of the types or dies (non-selective			
	embossing B44B 5/00)			

- 1/02 with separate or detached types or dies
- with types or dies carried upon levers or radial arms,
 e.g. manually operated (B41J 1/16 takes precedence)
- 1/06 • on power-operated levers or arms
- 1/08 with types or dies carried on sliding bars or rods
- 1/10 • on end surfaces thereof
- 1/12 • on side surfaces thereof, e.g. fixed thereto
- 1/14 • the types or dies being movable relative to the bars or rods (mounted on flexible bars or rods B41J 1/16)
- with types or dies arranged in stationary or sliding cases or frames or upon flexible strips, plates, bars, or rods
- 1/18 with types or dies strung on wires or rods
- 1/20 with types or dies mounted on endless bands or the like
- with types or dies mounted on carriers rotatable for selection
- the plane of the type or die face being perpendicular to the axis of rotation (B41J 1/60 takes precedence)
- 1/26 • Carriers moving for impression (B41J 1/27 takes precedence) [3]
- 1/27 • Carriers moving during impression [3]
- 1/28 • Carriers stationary for impression, e.g. with the types or dies not moving relative to the carriers
- 1/30 • with the types or dies moving relative to the carriers or mounted on flexible carriers
- the plane of the type or die face being parallel to the axis of rotation, e.g. with type on the periphery of cylindrical carriers (B41J 1/60 takes precedence)
- 1/34 • Carriers rotating during impression
- 1/36 • Carriers sliding for impression, e.g. manually operated
- 1/38 • power operated
- 1/40 • Carriers swinging for impression
- 1/42 • about an axis parallel to the axis of rotation of the carrier
- 1/44 • Carriers stationary for impression
- 1/46 • Types or dies fixed on wheel, drum, cylinder, or like carriers
- 1/48 • • with a plurality of carriers, one for each character space
- 1/50 • • with one or more carriers travelling across copy material in letter-space direction
- 1/52 • • with copy material moving in the letterspace direction, and carrier mounting being fixed relative to the machine
- 1/54 • • Types or dies movable on wheel, drum, cylinder, or like carriers

- 1/56 • Types or dies on shuttles or like loose carriers
- 1/58 • Types or dies upon arcuate bars
- with types or dies on spherical, truncated-spherical, or like surfaces
- 2/00 Typewriters or selective printing mechanisms characterised by the printing or marking process for which they are designed (mounting, arrangement, or disposition of types or dies B41J 1/00; marking methods B41M 5/00; structure or manufacture of heads, e.g. inductive, for recording by magnetisation or demagnetisation of a record carrier G11B 5/127; heads for reproducing capacitive information G11B 9/07) [5]

Note(s)

- This group <u>covers</u> devices reproducing only a discrete number of tones, whereas group H04N 1/00 covers devices used for the reproduction of documents or the like, which devices are capable of reproducing continuous tone value scales.
- 2. In this group, the following expressions are used with the meanings indicated:
 - "ink jet" involves the projection of ink on to the printing material, e.g. paper, through a nozzle as a stream of droplets or particles of colouring matter;
 - "continuous ink jet" means a jet of ink transformed into a continuous stream of droplets or particles of colouring matter after having left the nozzle;
 - "ink spray" means a spray of ink transported by a stream of charged particles or air on to the printing material.
- characterised by bringing liquid or particles selectively into contact with a printing material (printing by selective application of impact or pressure on a printing or impression-transfer material B41J 2/22) [5]
- 2/01 • Ink jet **[5]**
- 2/015 • characterised by the jet generation process (B41J 2/215 takes precedence) [5]
- 2/02 • generating a continuous ink jet [5]
- 2/025 • • by vibration **[5]**
- 2/03 • • by pressure **[5]**
- 2/035 • • by electric or magnetic field [5]
- 2/04 • generating single droplets or particles on demand [5]
- 2/045 • • by pressure, e.g. electromechanical transducers [5]
- 2/05 · · · · · produced by the application of heat [5] 2/055 · · · · · Devices for absorbing or preventing
- back-pressure [5]
- 2/06 • • by electric or magnetic field **[5]**
- 2/065 • • involving the preliminary making of ink protuberances [5]
- 2/07 • characterised by jet control (B41J 2/205 takes precedence) [5]

2/075 • • • for many-valued deflection [5]	2/315 • characterised by selective application of heat to a
2/08 • • • • charge-control type [5]	heat sensitive printing or impression-transfer material
2/085 • • • • • Charge means, e.g. electrodes [5]	(B41J 2/385, B41J 2/435 take precedence) [5]
2/09 • • • • • Deflection means [5]	2/32 • • using thermal heads [5]
2/095 • • • • electric field-control type [5]	2/325 • • • by selective transfer of ink from ink carrier, e.g.
2/10 • • • • magnetic field-control type [5]	from ink ribbon or sheet [5]
2/105 • • • for binary-valued deflection [5]	2/33 • • • • from ink roller [5]
2/11 • • • for ink spray [5]	2/335 • • • Structure of thermal heads [5]
2/115 • • • synchronising the droplet separation and	2/34 • • • comprising semiconductors [5]
charging time [5]	2/345 • • characterised by the arrangement of resistors or
2/12 • • • testing or correcting charge or deflection [5]	conductors [5]
2/125 • • • • Sensors, e.g. deflection sensors [5]	2/35 • • • providing current or voltage to the thermal
2/13 • • • • for inclination of printed pattern [5]	head [5]
2/135 • • • Nozzles [5]	2/355 • • • • Control circuits for heating-element
2/14 • • • • Structure thereof [5]	selection [5]
2/145 • • • • Arrangement thereof [5]	2/36 • • • • Print density control [5]
2/15 • • • • for serial printing [5]	2/365 • • • • • by compensation for variation in
2/155 • • • • for line printing [5]	temperature [5]
2/16 • • • • Production of nozzles [5]	2/37 • • • • • by compensation for variation in current [5]
2/165 • • • • Prevention of nozzle clogging, e.g. cleaning,	2/375 • • • Protection arrangements against overheating [5]
capping or moistening for nozzles [5]	2/38 • Preheating, i.e. heating to a temperature
2/17 • • • characterised by ink handling [5]	insufficient to cause printing [5]
2/175 • • • • Ink supply systems [5]	2/385 • characterised by selective supply of electric current
2/18 • • • • Ink recirculation systems [5]	or selective application of magnetism to a printing or
2/185 • • • • Ink-collectors; Ink-catchers [5]	impression-transfer material (B41J 2/005 takes
2/19 • • • for removing air bubbles [5]	precedence; electrography, magnetography
2/195 • • • for monitoring ink quality [5]	G03G) [5]
2/20 • • • • for preventing or detecting contamination of	2/39 • • using multi-stylus heads [5]
compounds [5]	2/395 • • • Structure of multi-stylus heads [5]
2/205 • • • for printing a discrete number of tones	2/40 • • providing current or voltage to the multi-stylus
(B41J 2/21 takes precedence) [5]	head [5]
2/21 • • • for multi-colour printing [5]	2/405 • • • Selection of the stylus or auxiliary electrode
2/215 • • by passing a medium, e.g. consisting of an air or	to be supplied (electronic switching circuits
particle stream, through an ink mist [5]	in general H03K 17/00) [5]
 2/22 • characterised by selective application of impact or 	2/41 • for electrostatic printing (B41J 2/39 takes
pressure on a printing material or impression- transfer	precedence) [5]
material [5]	2/415 • • by passing charged particles through a hole or a slit [5]
2/225 • • ballistic, e.g. using solid balls or pellets [5]	
2/23 • • using print wires [5]	 2/42 • for heating selectively [5] 2/425 • for removing surface layer selectively from
2/235 • • • Print head assemblies [5]	electro-sensitive material, e.g. matel coated
2/24 • • • serial printer type (B41J 2/25, B41J 2/265	paper [5]
take precedence) [5]	2/43 • • for magnetic printing [5]
2/245 • • • line printer type (B41J 2/25, B41J 2/265 take	2/435 • characterised by selective application of radiation to a
precedence) [5]	printing material or impression-transfer material
2/25 • • • • Print wires [5]	(optical elements, systems, or apparatus G02B;
2/255 • • • • • Arrangement of the print ends of the	modulation or deflection of light G02F;
wires [5]	electrophotography G03G) [5]
2/26 • • • • • Connection of print wire and actuator [5]	2/44 • using single radiation source, e.g. lighting beams
2/265 • • • • Guides for print wires [5]	or shutter arrangements (B41J 2/475 takes
2/27 • • • Actuators for print wires [5]	precedence) [5]
2/275 • • • • of clapper type (B41J 2/28 takes precedence) [5]	2/445 • • • using liquid crystals [5]
2/28 • • • • of spring charge type, i.e. with mechanical	2/447 • using arrays of radiation sources (B41J 2/475
power under electro-magnetic control [5]	takes precedence) [6]
2/285 • • • • of plunger type [5]	2/45 • • using light-emitting diode arrays [5]
2/29 • • • • of moving-coil type [5]	2/455 • • • using laser arrays [5]
2/295 • • • • using piezo-electric elements [5]	2/46 • • • characterised by using glass fibres [5]
2/30 • • Control circuits for actuators [5]	2/465 • using masks, e.g. light-switching masks
2/305 • • • Control circuits for actuators [5] 2/305 • • • Ink supply apparatus (ink ribbons, ink-ribbon	(photographic composing B41B) [5]
mechanisms B41J 31/00-B41J 35/00) [5]	2/47 • using the combination of scanning and modulation of light [5]
2/31 • • using a print element with projections on its	2/475 • • for heating selectively [5]
surface impacted or impressed by hammers [5]	2/48 • • melting ink on a film or melting ink
· · · · · · · · · · · · · · · · · · ·	-
	granules [5]

2/485	•	characterised by the process of building-up characters
		applicable to two or more kinds of printing or
		marking processes [5]

- 2/49 • by writing **[5]**
- 2/495 by selective printing from a rotating helical member [5]
- by the selective combination of two or more nonidentical printing elements [5]
- 2/505 from an assembly of identical printing elements [5]
- 2/51 • serial printer type **[5]**
- 2/515 • line printer type **[5]**
- Arrangement for printing a discrete number of tones, not covered by group B41J 2/205, e.g. applicable to two or more kinds of printing or marking process (B41J 2/525 takes precedence; for photomechanical production G03F 5/00) [5]
- Arrangement for multi-colour printing, not covered by group B41J 2/21, e.g. applicable to two or more kinds of printing or marking process (for photomechanical production G03F 3/00) [5]

3/00 Typewriters or selective printing or marking mechanisms characterised by the purpose for which they are constructed (cryptographic typewriters G09C 3/00) [5]

- for special character, e.g. for Chinese characters or bar codes [5]
- for perforating or stencil cutting using special types or dies
- 3/26 for stenographic writing
- for printing downwardly on flat surfaces, e.g. of books, drawings, boxes
- 3/30 for printing with large type, e.g. on bulletins, tickets
- for printing in Braille or with keyboards specially adapted for use by blind or disabled persons
- 3/34 for printing musical scores
- 3/36 for portability
- 3/37 • Foldable typewriters [5]
- for embossing, e.g. for making matrices for stereotypes
- 3/39 hand-held (manually-controlled or manually-operable label dispensers having printing equipment B65C 11/02) [5]
- for marking on special material (printing on special surfaces B41F 17/00) [5]
- 3/413 • for metal **[5]**
- 3/42 Two or more complete typewriters coupled for simultaneous operation
- Typewriters or selective printing mechanisms having dual functions or combined with, or coupled to, apparatus performing other functions (printing mechanisms coupled to typographical composing machines B41B 27/41)
- 3/46 Printing mechanisms combined with apparatus providing a visual indication
- Mechanisms producing characters by printing and also producing a record by other means (punching mechanisms G06K) [5]
- 3/51 • the printed and recorded information being identical; using type elements with codegenerating means (G06K 1/12 takes precedence) [5]
- with two or more sets of type or printing elements (B41J 3/60 takes precedence) [5]
- for printing on both faces of the printing material [5]

 for printing on two or more separate sheets or strips of printing material (B41J 3/54 takes precedence) [5]

Common details or accessories

5/00 Devices or arrangements for controlling character selection (methods or arrangements for sensing record carriers G06K 7/00)

- 5/02 Character or syllable selected by setting an index
- 5/04 • Single-character selection
- 5/06 • Multiple-character selection
- Character or syllable selected by means of keys or keyboards of the typewriter type
- 5/10 • Arrangements of keyboards
- 5/12 • Construction of key buttons
- 5/14 • Construction of key levers
- Mounting or connecting key buttons on or to key levers
- 5/18 • Locks
- 5/20 • for subsidiary keys, e.g. for shift keys
- 5/22 • Interlocks between keys, e.g. without detent arrangements
- 5/24 • with detent arrangements
- 5/26 Regulating touch, key dip or stroke, or the like
- 5/28
 Multiple-action keys, e.g. keys depressed by two or more amounts or movable in two or more directions to effect different functions or selections
- Character or syllable selection controlled by recorded information
- 5/31 • characterised by form of recorded information
- 5/32 • by printed, embossed, or photographic records, e.g. cards, sheets
- 5/34 • by strips or tapes
- 5/36 • by punched records, e.g. cards, sheets
- 5/38 • by strips or tapes
- 5/40 • by magnetic or electrostatic records, e.g. cards, sheets
- 5/42 • by strips or tapes
- 5/44 characterised by the kind of storage of recorded information
- 5/46 • the storage being on internal storages
- 5/48 • the storage being on external storages
- 5/50 • on a single storage
- 5/51 • on more than one separate storage, e.g. on additional correction strips or tapes [3]
- 5/52 characterised by the provision of additional devices for producing a punched or like record,
 e.g. simultaneously

7/00 Type-selecting or type-actuating mechanisms (index setting B41J 5/02)

- 7/02 Type-lever actuating mechanisms
- 7/04 • Levers mounted on fixed pivots
- 7/06 • and connected to transmission members, e.g. toothed gearing
- 7/08 • with pin-and-slot or like loose connections; Cam-slot members
- 7/10 • Chain, belt, flexible-cable, or like members
- 7/12 • U-shaped type-lever on two pivots
- 7/14 • Single key-and-type lever
- 7/16 • Type-head pivoted to, or rotating on, lever
- 7/18 Levers having moving or variable fulcra to alter the mechanical advantage during the stroke
- 7/20 Levers having moving pivots fixed relative to the lever; Type-bars each pivoted on two links

7/22	• • Type-baskets; Bearings or hangers for type-levers	9/34	• • Fluid-pressure means
7/24	 Construction of type-levers (U-shaped levers B41J 7/12) 	9/36	 in which mechanical power is applied under electromagnetic control
7/26	 Special means, e.g. repulsers, for ensuring return of type-levers 	9/38 9/40	• Electromagnetic means• including an electro-adhesive clutch
7/28	Key-lever and type-member returned	9/40 9/42	with anti-rebound arrangements
7720	independently to rest position	9/44	Control for hammer-impression mechanisms [5]
7/30	 Preventing rebound or clash of levers or type- 	9/44	for deciding or adjusting hammer-firing time [5]
	members	9/48	• • for deciding or adjusting hammer-drive energy [5]
7/32	 Type-face selected by operation of sliding members 	9/50	 for compensating for the variations of printer drive
7/34	Type-face selected by operation of rotary members		conditions, e.g. for compensating for the variation
7/36	 Selecting arrangements applied to type-carriers rotating during impression 		of temperature or current supply [5]
7/38	 Type movable on carrier for selection 	9/52	• • for checking the operation of print hammers [5]
7/40	Type movable on carrier for impression	9/54	• • • for checking the breakage of print hammers [5]
7/42	Timed impression, e.g. without impact	11/00	Devices or arrangements for supporting or handling
7/44	• • • with impact		copy material in sheet or web form (specially adapted
7/46	Rolling contact during impression		for supporting or handling copy material in short lengths
7/48	 Type-carrier arrested in selected position by electromagnetic means 		B41J 13/00, in continuous form B41J 15/00; holders for text to be copied B41J 29/00)
7/50	Type-face selected by combinations of two	11/02	• Platens
7,50	movements of type-carrier	11/04	Roller platens
7/52	by combined rotary and sliding movement	11/053	• • • with sound-deadening devices (structure of
7/54	Selecting arrangements including combination,	11/057	surface B41J 11/057) [3] • • • Structure of the surface [3]
	permutation, summation, or aggregation means	11/05/	Flat page-size platens
7/56	Summation devices for mechanical movements	11/08	Bar or like line-size platens
7/58	• • Wedges	11/10	Anvil or like character-size platens
7/60 7/62	• • Levers	11/13	Backings or blankets (for roller platens
7/62 7/64	• • Gearing• • Pulley-and-strand mechanism		B41J 11/057) [3]
7/66	Movable members, e.g. pins, displaceable	11/14	• • Platen-shift mechanisms; Driving gear therefor
7700	according to a code	11/16	 with balancing means
7/68	with means for selectively closing an electric	11/18	Platen-impression arrangements
	circuit for type presentation	11/20	 Platen adjustments for varying the strength of impression, for a varying number of papers, for wear
7/90	Syllable, line, or like type selection		or for alignment
7/92	 Impact adjustment; Means to give uniformity of impression (B41J 9/46, B41J 9/48 take 	11/22	Paper-carriage guides or races
	precedence) [5]	11/24	Detents, brakes, or couplings for feed rollers or
7/94	Character-by-character adjustment		platens
7/96	Means for checking correctness of setting	11/26	• Pin feeds
	-	11/27	 on or within the platen-rollers
9/00	Hammer-impression mechanisms	11/28	• • Pin wheels
9/02	Hammers; Arrangements thereof	11/30	 Pin traction elements other than wheels, e.g. pins on endless bands
9/04	 of single hammers, e.g. travelling along printing line 	11/32	 Adjustment of pin wheels or traction elements,
9/06	• • of stationary hammers, e.g. engaging a single	11, 5=	e.g. laterally
	type-carrier	11/34	Guides coacting with pin feeds
9/08	• • • engaging more than one type-carrier	11/36	• Blanking or long feeds; Feeding to a particular line,
9/10	of more than one hammer, e.g. one for each	44.400	e.g. by rotation of platen or feed roller
0/10	character position	11/38	Manually-operated feeding devices
9/12	 each operating in more than one character position 	11/40 11/42	 specially adapted for printing musical scores Controlling
9/127	Mounting of hammers [3]	11/44	by devices, e.g. programme tape or contact
9/133	• • Construction of hammer body or tip [3]		wheel, moved in correspondence with
9/14	 Means for selecting or suppressing individual hammers 		movement of paper-feeding devices, e.g. platen rotation
9/16	Means for cocking or resetting hammers	11/46	• • by marks or formations on the paper being fed
9/18	• • Cams	11/48	 Apparatus for condensed record, tally strip, or like
9/20	• • Springs		work using two or more papers, or sets of papers
9/22	Fluid-pressure means	11/50	• in which two or more papers or sets are separately
9/24	• • Electromagnetic means		fed in the same direction towards the printing position
9/26	Means for operating hammers to effect impression	11/51	• • with different feed rates [3]
9/28	• • Came	11/01	with different recarates [5]

9/28

9/30

9/32

• • Cams

• • Springs

arranged to be clutched to snatch roll

11/52

relative to another

• • in which one paper or set is moved transversely

11/53	 Devices for holding in place one paper or set during replacement of one or more of the auxiliary papers or sets 	15/24	 with means for registering the webs with each other
11/54	• • in which one paper or set is fed towards printing	17/00	Mechanisms for manipulating page-width impression-transfer material, e.g. carbon paper (in
11/55	position from the front of the apparatus		manifolding devices B41L; sheet material for
	• • with means for adjusting a paper or set [3]• specially constructed to facilitate storage or transport		duplicating or marking B41M 5/00)
11/56	specially constructed to facilitate storage or transport of typewriter	17/02	Feeding mechanisms
11/58	 Supply holders for sheets or fan-folded webs, e.g. 	17/04	• • Feed dependent on the record-paper feed, e.g. both
11/50	shelves, tables, scrolls, pile holders		moved at the same time
11/60	Erasing or correcting tables	17/06	• • "Creep" feed, i.e. impression-transfer material
11/62	Shields or masks		fed slower than the record paper
11/64	Applications of scales or indicators	17/07	 electromagnetically controlled
11/66	 Applications of scates of indicators Applications of cutting devices 	17/08	 Feed independent of the record-paper feed
11/68	 cutting parallel to the direction of paper feed 	17/10	 electromagnetically controlled
11/70	 cutting parametro the direction of paper feed cutting perpendicular to the direction of paper feed 	17/12	 Special adaptations for ensuring maximum life
13/00	Devices or arrangements specially adapted for	17/14	 Automatic arrangements for reversing the feed direction
13/00	supporting or handling copy material in short	17/16	 Holders in the machine for sheets of impression-
	lengths, e.g. sheets		transfer material
13/02	• Rollers (roller platens B41J 11/04)	17/18	 pivotable to and from the platen
13/03	driven, e.g. feed rollers separate from platen	17/20	slidable to and from the platen
13/036	co-operating with a roller platen [3]	17/22	• Supply arrangements for webs or impression-transfer
13/042	Front and rear rollers or sets of front or rear		material
,	rollers each mounted on a separate carrier [3]	17/24	• • Webs supplied from reels or spools attached to the
13/048	Front and rear rollers both mounted on a		machine (reels <u>per se</u> B65H 75/02)
	common carrier [3]	17/26	• • Webs supplied from trays or like supports attached
13/054	• • • on the paper apron concentric with the roller		to the machines
	platen [3]	17/28	Arrangements of guides for the impression-transfer
13/076	 Construction of rollers; Bearings therefor 	17/20	material
13/08	Bands or like feeding devices	17/30	 Constructions of guides for the impression-transfer material
13/10	Sheet holders, retainers, or stationary guides	17/32	Detachable carriers or holders for impression-transfer
13/12	 specially adapted for cards, envelopes, or the like 	1//32	material mechanism
13/14	Aprons or guides	17/34	Backings for impression-transfer material, e.g. sheets
13/16	 movable for insertion or release of sheets 	17751	for reducing friction, shields for preventing imprint
13/18	concentric with roller platen	17/36	Alarms, indicators, or feed-disabling devices
13/20	• • Bails		responsive to material breakage or exhaustion
13/22	Clamps or grippers	17/38	• for dealing with the impression-transfer material after
13/24	 Strips for supporting or holding papers 		use
13/26	Registering devices	17/40	 for retracting sheets for re-use
13/28	 Front lays, stops, or gauges 	17/42	 for webs
13/30	Side lays or gauges	10/00	
13/32	Means for positioning sheets in two directions	19/00	Character- or line-spacing mechanisms (key actions B41J 25/02)
	under one control, e.g. for format control or	19/02	 with retarding devices, e.g. brakes
	orthogonal sheet positioning	19/02	 Sound-deadening or shock-absorbing devices or
15/00	Devices or arrangements specially adapted for	13/04	measures therein (B41J 19/38 takes precedence)
	supporting or handling copy material in continuous	19/06	 Resilient mounting of mechanism
	form, e.g. webs	19/08	Buffers, springs, or like carriage stops
15/02	 Web rolls or spindles; Attaching webs to cores or 	19/10	Dash-pots
	spindles	19/12	Gearing made of special material or specially
15/04	Supporting, feeding, or guiding devices; Mountings	13/12	constructed to reduce sound or shock
	for web rolls or spindles	19/14	with means for effecting line or character spacing in
15/06	characterised by being applied to printers having		either direction
45/00	stationary carriages	19/16	Special spacing mechanisms for circular, spiral, or
15/08	 characterised by being applied to printers having transversely-moving carriages 		diagonal-printing apparatus
15/10	• • and mounted on the carriage	19/18	 Character-spacing or back-spacing mechanisms;
15/10	and coupled to the carriage		Carriage-return or release devices therefor
15/12	and detached from the carriage	19/20	Positive-feed character-spacing mechanisms Positive-feed character-spacing mechanisms
15/14	Means for tensioning or winding the web	10 /00	(controlled by escapements B41J 19/52)
15/18	Multiple-web feeding apparatus	19/22	• • • acting by friction or gripping effect
15/10	 for webs superimposed during printing (machines 	19/24	• • • Pawl and ratchet
	for separating superposed webs B65H 41/00)	19/26	• • • moving a paper or like carriage
15/22	 for feeding webs in separate paths during printing 	19/28	• • • moving a paper or like web or strip, e.g. over
	0 1 1 01		a stationary support

19/30	• • • Electromagnetically-operated mechanisms	21/18	 characterised by applications of scales or indicators
19/32	 • • Differential or variable-spacing arrangements 	22/00	D(D41I0/00
19/34	 Escapement-feed character-spacing mechanisms 	23/00	Power drives for actions or mechanisms (B41J 9/00 take precedence)
19/36	 • • Driving mechanisms, e.g. springs stressed 	23/02	Mechanical power drives
40.400	during carriage return	23/04	 with driven mechanism arranged to be clutched to
19/38	• • • • adapted for silent return	237 0 .	continuously-operating power source
19/40	• • Escapements having a single pawl or like detent	23/06	• • • by snatch rolls
19/42	Escapements having two pawls or like detents	23/08	• • by one-revolution or part-revolution clutches
19/44	• • • coacting with two toothed members, e.g. racks or wheels	23/10	• • and arrested in selected position
19/46	• • • and mounted on a single rocker	23/12	 Mechanism driven by cams engaging rotating
19/48	• • • and mounted on a single slider		roller
19/50	Electromagnetically-controlled escapements	23/14	Mechanism driven through an oscillating or
19/52	• • Escapements controlling positive-feed	22/46	reciprocating member
	mechanism	23/16	Mechanism driven by a spring tensioned by power means.
19/54	 Construction of universal bars 	23/18	means • Continuously-cycling drives
19/56	 • Escapements controlling web or strip feed 	23/10	Fluid-pressure power drives
19/58	 • • Differential or variable-spacing arrangements 	23/22	• • for key or like type selection
19/60	 Auxiliary feed or adjustment devices 	23/24	for impression mechanisms
19/62	• • for back-spacing	23/26	for platen or carriage movements, e.g. for line
19/64	• • • for justifying	23723	spacing, letter spacing, or carriage return
19/66	 Carriage-release mechanisms 	23/28	for type-carriage movements
19/68	Carriage-return mechanisms, e.g. manually	23/30	 for case shift
10 /70	actuated	23/32	 Electromagnetic power drives, e.g. applied to key
19/70 19/72	• power driven• with power stored during character spacing		levers
19/72	with special means to maintain character-spacing	23/34	 applied to elements other than key levers
19//4	or back-spacing elements in engagement during	23/36	 • and acting on type members
	case-shift or like movement	23/38	• • • and acting on aligning or case-shift
19/76	 Line-spacing mechanisms (special line-feeds, e.g. 		mechanisms
	long feeds, B41J 11/36)	25/00	Actions or mechanisms not otherwise provided for
19/78	 Positive-feed mechanisms 	25/02	Key actions for specified purposes
19/80	 Pawl-and-ratchet mechanisms 	25/04	Back-spacing
19/82	• • • moving a paper or like carriage	25/06	Carriage return
19/84	• • • • in the form of a roller rotated for line	25/08	• • Case shift
19/86	spacing • • • • • the pawl being normally in	25/10	 Ink-ribbon adjustment
19/00	engagement with the ratchet	25/12	Character spacing
19/88	• • • moving a type carriage	25/14	• • Line spacing
19/90	• • • moving a paper or like web or strip, e.g. over	25/16	Line spacing and carriage return by a single key
	a stationary support, automatically in	25/18	• • Tabulating
	response to movements other than carriage	25/20	 Auxiliary type mechanisms for printing distinguishing marks, e.g. for accenting, using dead
	return		or half-dead key arrangements, for printing marks in
19/92	Electromagnetically-operated mechanisms		telegraph printers to indicate that machine is
19/94	• • automatically operated in response to carriage		receiving
19/96	return • • Variable-spacing arrangements	25/22	 for aligning characters for impression (in machines
19/98	• Variable-spacing arrangements • Escapement-feed mechanisms		using index setting B41J 5/02)
13/30	Escapement-reed mechanisms	25/24	Case-shift mechanisms (B41J 11/14 takes
21/00	Column, tabular, or like printing arrangements;		precedence; key actions B41J 25/08); Fount-change
	Means for centralising short lines (carriage-release	25/304	arrangementsBodily-movable mechanisms for print heads or
	mechanisms B41J 19/66; key actions B41J 25/18)	23/304	carriages movable towards or from paper surface
21/02	Stops or stop-racks		(type carriers sliding for impression B41J 1/36; type
21/04	Mechanisms for setting or restoring tabulation stops		carriers swinging for impression B41J 1/40) [5]
21/06	• with means for preventing rebound from stops	25/308	• • with print gap adjustment mechanisms [5]
21/08	 Mechanisms for initiating, effecting, skipping, or stopping tabulation movement; Means for 	25/312	 with print pressure adjustment mechanisms, e.g.
	centralising short lines	05/015	pressure-on-the-paper mechanisms [5]
21/10	with central, counter, or equivalent stop projected	25/316	• • with tilting motion mechanisms relative to paper
	into path of tabulation stops	3E /33	surface [5]
21/12	 characterised by arrangements of electrical contacts 	25/32	 Impression mechanisms in which a roller co-operates with stationary type-faces
21/14	 characterised by denominational arrangements 	25/34	Bodily-changeable print heads or carriages
21/16	 controlled by the sensing of marks or formations on 	_5,51	(B41J 1/20, B41J 1/22, B41J 1/60 take
	the paper being typed, an undersheet, or the platen		precedence) [5]
21/17	 controlled by stored information [5] 		

27/00	Ιτ	nking apparatus	29/46		Applications of alarms, e.g. responsive to approach
27/02		nking apparatus with ink applied by pads or rotary discs	23/40	·	of end of line (responsive to transfer-material
27/02		Pads or discs; Ink-supply arrangements therefor			breakage or exhaustion B41J 17/36, B41J 35/36)
27/04		Arrangements to ensure maximum life of pads or discs	29/48	•	 responsive to breakage or exhaustion of paper or approach of bottom of paper
27/08		Arrangements for multicolour work	29/50	•	Side-stop mechanisms
27/10		with ink applied by rollers; Ink-supply arrangements	29/52		Top-and-bottom stop mechanisms
2//10		therefor	29/54		Locking devices applied to printing mechanisms
27/12		• Rollers	29/56		and manually actuated
27/14		Arrangements for multicolour work	29/58		and automatically actuated
27/16		with ink deposited electrostatically or	29/60	•	 in response to failure of power supply
27/18		electromagnetically, e.g. powdered ink • with liquid ink deposited	29/62		by the absence of paper to lock hammer mechanism
27/20		with ink supplied by capillary action, e.g. through	29/64	•	• • by a function of the printer to lock the keyboard
27/22		porous type-members, through porous platens with inking discs or sectors	29/66		• • Locking devices actuated when platen reaches the end of a line
			29/68	•	• • by completion of a page or predetermined
29/00		etails of, or accessories for, typewriters or selective			number of lines or exhaustion of paper to lock
		rinting mechanisms not otherwise provided for			the keyboard
29/02	•	Framework	29/70	•	Interlocks between any two carriage-moving
29/04	•	Means for attaching machines to baseboards			mechanisms, e.g. character-space, back-space,
29/06	•	Special supports, platforms, or trolleys for supporting machines on tables			tabulation, carriage-return, or carriage-release mechanisms
29/08	•	Sound-deadening or shock-absorbing stands,			
29/10	•	supports, cases, or pads separate from machines Sound-deadening devices embodied in machines	<u>Ink ribbo</u>	ns;	Ink-ribbon mechanisms
00/40		(B41J 19/04 takes precedence)	31/00	Iı	nk ribbons (sheet material for duplicating or marking
29/12		Guards, shields or dust excluders [5]			41M 5/00; storing webs or tapes, e.g. on reels,
29/13		• Cases or covers [5]			65H 75/00); Renovating or testing ink ribbons
29/14		Attachments operated by the leg, e.g. the foot or knee	31/02	•	Ink ribbons characterised by the material from which
29/15	•	Script supports connected to the typewriter or printer (tables, desks, office furniture, in general A47B) [5]	D4 /04		they are woven
29/16			31/04		woven from synthetic material
29/17	•	Cleaning arrangements [5]	31/05	•	Ink ribbons having coatings other than impression- material coatings
29/18		Mechanisms for rendering the print visible to the	31/06		 the coatings being directly on the base material,
23/10		operator (ink-ribbon shifts B41J 35/20) [5]	31/00		i.e. below impression-transfer material; Ink
29/19	•	• with reflectors or illuminating devices [5]			ribbons having base material impregnated with
29/20		Arrangements of counting devices			material other than impression material
29/22		Line counters	31/08	•	 the coatings being superimposed on impression-
29/24	•	Word counters			transfer material
29/26	•	Devices, non-fluid media or methods for cancelling,	31/09	•	Ink ribbons characterised by areas carrying media for
		correcting errors, underscoring or ruling [4]	21/10		obliteration or removal of typing errors [4]
29/28	•	 Writing or like instruments in holders or guides 	31/10	•	Ink ribbons having arrangements to facilitate threading through a machine
29/30	•	• Wheels	31/12		Ink ribbons having arrangements to prevent
29/32		Type-members	31/12	•	undesired contact between the impression-transfer
29/34		 repeatedly actuated 			material and machine parts or other articles
29/36	•	for cancelling or correcting errors by overprinting	31/14	•	Renovating or testing ink ribbons
		(B41J 31/00 takes precedence) [4]	31/16		 while fitted in the machine using the ink ribbons
29/367	•	sheet media carrying a pigmented transferable			<u> </u>
20/272		correction layer [4]	32/00		ık-ribbon cartridges [3]
29/373	•	 sheet media bearing an adhesive layer effective to lift off wrongly typed characters [4] 	32/02	•	for endless ribbons [3]
29/377		Cooling or ventilating arrangements [5]	33/00	Δ	pparatus or arrangements for feeding ink ribbons
29/38		Drives, motors, controls, or automatic cut-off devices	33/00		r like character-size impression-transfer material
23/30		for the entire printing mechanism			nk-ribbon cartridges B41J 32/00)
29/387		Automatic cut-off devices [5]	33/02		Ribbon arrangements
29/393		Devices for controlling or analysing the entire	33/04		 mounted on moving carriages
		machine [5]	33/06		Ribbons associated, but not moving, with
29/40	•	Means for printing fixed, i.e. unchanging, matter in addition to selectable matter			typewriter platens, e.g. extending transversely to the length of the platen
29/42	•	Scales and indicators, e.g. for determining side margins	33/08		 and extending parallel to the length of the platen
29/44	•	 for determining top and bottom margins or 	33/10	•	• Arrangements of endless ribbons
		indicating exhaust of paper	33/12		Ribbons carried by coaxially-mounted spools
			33/14	•	Ribbon-feed devices or mechanisms

33/16 • • with drive applied to spool or spool spindle	33/54 • • for ensuring maximum life of the ribbon
33/18 • • • by ratchet mechanism (B41J 33/30 takes	(B41J 33/38 takes precedence; by adjustment of
precedence)	vibrator mechanisms B41J 35/14)
33/20 • • • by friction	33/56 • • • Ribbon adjusted transversely
33/22 • • • by gears or pulleys	33/58 • • • Ribbon fed angularly
33/24 • with drive applied directly to ribbon	33/60 • responsive to telegraph code or other extraneous
**	signals
33/26 • • • by rollers engaging the ribbon	o-grain
33/28 • • • by mechanism pulling or gripping the ribbon	35/00 Other apparatus or arrangements associated with, or
33/30 • • Escapement mechanisms	incorporated in, ink-ribbon mechanisms
33/32 • • Electromagnetic devices	• Frames or holders for unwound short lengths of ink
33/34 • • driven by motors independently of the machine as	ribbons
a whole	• • the holder being movable to inoperative position,
33/36 • • with means for adjusting feeding rate	e.g. by swinging upwardly
33/38 • • Slow, e.g. "creep", feed mechanisms	35/04 • Ink-ribbon guides
33/382 • • • the ribbon being fed only during carriage return	35/06 • • stationary
33/384 • • • and attached to the carriage during writing	35/08 • • with tensioning arrangements
33/386 • • • the ribbon being fed only by operation of the	
line-spacing mechanism	
33/388 • • • the ribbon being fed only when type impression	35/12 • • • adjustable, e.g. for case shift (key actions
takes place	B41J 25/02)
33/40 • • with arrangements for reversing the feed direction	35/14 • • • for multicolour work; for ensuring maximum
33/42 • • • manually	life of ink ribbon; for rendering ink ribbon
•	inoperative
33/44 • • • automatically	• Multicolour arrangements (B41J 35/10 takes
33/46 • • • and characterised by its application to	precedence)
mechanism in which two spools are driven	35/18 • • Colour change effected automatically
by pawl-and-rachet mechanism	• Ink-ribbon shifts, e.g. for exposing print, for case-
33/48 • • • • comprising two pawls and ratchets, one	shift adjustment, for rendering ink ribbon inoperative
for each spool	• Mechanisms permitting the selective use of a
33/50 • • • • comprising a single pawl or integral	plurality of ink ribbons
double-tooth pawl selectively engageable	• • with two or more ribbon guides
with two ratchets, one for each spool	 Mechanisms specially adapted for feeding
33/51 • • • and characterised by the use of particular	impression-transfer materials of foil form
reversing control means	 35/26 • Ink-ribbon shields or backings
33/512 • • • • using a pivoted reversing-feeler engaging	 35/28 • Detachable carriers or holders for ink-ribbon
the external periphery of the wound	mechanisms
ribbon	35/30 • Manifolding or like arrangements
33/514 • • • • using a pivoted reversing-feeler engaging	35/32 • • for producing a plurality of copies along the
the interior of the wound ribbon	printing line by a single ink ribbon
33/516 • • • • using a reversing-feeler responsive to the	35/34 • using a plurality of separate ink ribbons, e.g.
tension of the ribbon	including one hectographic ink ribbon
33/518 • • • • the reversing-feeler engaging buttons or	35/35 • • using unwound short lengths of ink ribbons
the like secured to the ribbon near its ends	35/36 • Alarms, indicators, or feed-disabling devices
33/52 • • Braking devices therefor	responsive to ink-ribbon breakage or exhaustion
	35/38 • Feeding the ink ribbon to waste after use
	55750 • Feeting the link Hobbill to waste after use

STAMPS; STAMPING OR NUMBERING APPARATUS OR DEVICES (marking meat A22C 17/10; embossing combined with printing B41F 19/00; selective printing mechanisms B41J; embossing decorations or marks B44B 5/00; marking or coding completed packages B65B 61/26; ticket printing and issuing, fare registering, non-printing aspects of franking apparatus G07B)

supporting or locating the articles to be stamped, i.e. hand stamps; Inking devices or other accessories therefor 1/02 • with one or more flat stamping surfaces having fixed images 1/04 • with multiple stamping surfaces; with stamping	characters
 therefor 1/02 • with one or more flat stamping surfaces having fixed images 	characters
1/02 • with one or more flat stamping surfaces having fixed images	1/16 • • • Numbering devices
images	1/18 • • • for pages
0	1/20 • with means for locating the image to be obtained
 with multiple stamping surfaces, with stamping surfaces replaceable as a whole with means for locating the image to be obtained with a flat stamping surface and changeable characters having movable type-carrying bands or chains having adjustable type-carrying wheels 	 with curved stamping surfaces for stamping by rolling contact Rocking stamps with stamping surfaces adapted for application to non-flat surfaces flexible for offset or intaglio stamping for stencilling for multicolour stamping
	1/34 • Tot municoloui stamping

1/36	• Details	3/32	 with co-operating stamping and counter-stamping
1/38	Inking devices; Stamping surfaces	3/32	members
1/40	Inking devices, stamping surfaces Inking devices operated by stamping movement	3/34	in the form of indexable cylinders, e.g. of curved
1/42	• • • with pads or rollers movable for inking		or polygonal cross-section, or of movable chains
1/44	for offset, intaglio, or stencil stamping		or bands
1/46	for multicolour stamping	3/36	 with means for deforming or punching the copy
1/48	• • with ink ribbons, ink sheets, or carbon tape or		matter
1/40	paper	3/38	 separate from the stamping means
1/50	Stamping surfaces impregnated with ink, or	3/40	 for numerical or alphabetical characters
-, -, -	made of material leaving a mark after stamping	3/42	 Stamping apparatus with selection mechanisms for
	contact		successively stamping and delivering lists or other
1/52	• • • Ink reservoirs, e.g. integral with stamp handles		items giving information, e.g. for warehouse administration, washing lists, supermarket guides
1/54	• • • Inking pads	3/44	Means for handling copy matter
1/56	• • Handles	3/44	for locating when stationary
1/58	 Stands or other means for keeping hand stamps or 	3/48	
	the like within easy reach	3/48	 for conveying intermittently to or from stamping station
3/00	Apparatus for stamping articles having integral	3/50	 for conveying during stamping operation
	means for supporting the articles to be stamped	3/52	 for discharging
	(means for printing on articles of special shape or	3/54	 Inking devices
	having a surface of particular configuration B41F 17/00)	3/56	 using inking pads
3/02	 with stamping surface located above article- supporting surface 	3/58	 using ink ribbons, ink sheets, or carbon tape or paper
3/04	 and movable at right angles to the surface to be 	3/60	 using rollers, e.g. rollers with integral ink-supply
	stamped	5/00	devices
3/06	 having type-carrying bands or chains 	3/62	 Details or accessories
3/08	 having adjustable type-carrying wheels 	3/64	 Stamping mechanisms controlled by feed of copy
3/10	 having automatic means for changing type- 		matter
	characters, e.g. numbering devices	3/66	 Safety devices, e.g. for preventing extraction of
3/12	 with curved stamping surface for stamping by 		copy matter before completion of stamping
	rolling contact		operation
3/14	• • • for relief stamping	3/68	 Cutting or severing devices (in general B26)
3/16	• • • for intaglio stamping	5/00	Diay like tools for stamping or stamping and
3/18	• • • for offset stamping	5/00	Plier-like tools for stamping, or stamping and delivering, tickets or the like
3/20	• • • for stencilling	5/02	with means for varying the image stamped
3/22	 • with means for producing distorted images 	5/04	 with devices for collecting counterfoils, or with other
3/24	for multicolour stamping	3/04	means for recording stamping operations (counting
3/26	with stamping surface located below article-		devices G06M)
2 /20	supporting surface	5/06	 for recording on separate tape
3/28	and bearing a positive image	5/08	with counting devices
3/30	• • • and having means for varying the image, e.g.		g
	by exchanging stamping plates in succession	99/00	Subject matter not provided for in other groups of this subclass [2006.01]

B41L APPARATUS OR DEVICES FOR MANIFOLDING, DUPLICATING, OR PRINTING FOR OFFICE OR OTHER COMMERCIAL PURPOSES; ADDRESSING MACHINES OR LIKE SERIES-PRINTING MACHINES (printing presses or machines for industrial purposes B41F; stamps, stamping or numbering devices B41K)

Note(s)

- 1. This subclass <u>does not cover</u> constituent parts common to manifolding by means of pressure-sensitive layers or intermediaries, to apparatus or machines for duplicating or printing for office or other commercial purposes, or to addressing machines or like seriesprinting machines, which are covered by subclass B41F.
- 2. In this subclass, as indicated by the references, groups B41L 15/00 and B41L 17/00 are intended to cover letterpress and lithographic printing apparatus only in so far as it is specially adapted for office or other commercial purposes; the general constructions or features of apparatus of these types are classified in subclass B41F. Constructions or features determining classification in these groups are, for example: ease of operation by clerical staff, cleanliness of operation in non-industrial environments, the use of printing surfaces constructed for the production of a limited number of copies.
- 3. In this subclass, the following terms are used with the meanings indicated:
 - "manifolding" means the obtaining of several copies simultaneously by means of pressure-sensitive layers when making an original;
 - "duplicating" means the obtaining of successive copies from a master, e.g. a hectographic image;
 - "stencilling" involves the use of a printing surface which is perforated to form the image, the ink flowing through the perforations on the copy material.

Subclass index

MANIFOLDING	1/00, 3/00, 5/00
DUPLICATING	
From hectographic masters	7/00, 9/00, 11/00
By stencil	13/00
Otherwise	19/00
PRINTING	
Letterpress apparatus Lithographic apparatus Other apparatus	15/00
Lithographic apparatus	17/00
Other apparatus	19/00
COMMON DETAILS OR ACCESSORIES	
Treatment of surfaces before printing; handling thereof	23/00, 21/00, 33/00
Impression or offset surfaces; moistening thereof	38/00, 25/00
Inking	27/00
Impression or offset surfaces; moistening thereof	29/00-33/00
Cylinders; Attaching coverings or make-ready devices	35/00, 38/00
Auxiliary operations	39/00, 41/00, 43/00
SPECIAL MACHINES FOR SERIES-PRINTING	

Manifolding by means of pressure-sensitive layers or intermediaries

1/00 Devices for performing operations in connection with manifolding by means of pressure-sensitive layers or intermediaries, e.g. carbons; Accessories for manifolding purposes

- Devices for preparatory operations, e.g. for bringing together sheets or webs and interposed carbons;
 Devices combined with devices for printing, for coating with carbon, for folding
- Devices for performing operations subsequent to manifolding, e.g. for separating single sheets or webs from single form sets, continuous manifold assemblies from carbons
- 1/06 • on single form sets
- 1/08 • on continuous manifold assemblies
- 1/10 • Separate folding or disposition of single webs
- 1/14 • Severing edge perforations from webs
- 1/16 Carriers or supply devices for pressure-sensitive material, e.g. for carbon sheets; Carbon gloves
- 1/18 • for carbon webs; Continuous carbon-supply mechanisms
- 1/20 Manifolding assemblies, e.g. book-like assemblies
- 1/22 made up of single sheets or forms
- 1/24 • Pads or books
- 1/26 • Continuous assemblies made up of webs
- 1/28 • in rolled or wound form
- 1/30 • folded longitudinally
- 1/32 • folded transversely
- 1/34 • for making masters for hectographic duplicators
- 1/36 with pressure-sensitive layers or coating other than carbon (sheet materials B41M 5/00)

3/00 Platens or like sheet supports for manifolding using pressure-sensitive layers or intermediaries, e.g. for book-keeping purposes

- with stationary clamping means for holding the manifolding assembly in registered position, e.g. resilient clamps for holding non-perforated sheets
- 3/04 Bars provided with pins engaging perforations in the elements

- with movable clamping or guiding means for the elements of the manifolding assembly
- with non-mechanical means for holding the elements in registered position, e.g. magnetic means
- with means for moving assembled elements step by step relative to platen or support, e.g. for column or line selection; Means for locating assembled elements when stationary
- 3/12 Auxiliary devices
- 3/14 • Magazines or storage compartments, e.g. for slips
- 3/16 • Web-feeding arrangements
- 3/18 • Displaceable covers, e.g. with windows
- 3/20 • for facilitating manifolding in books
- 3/22 Applications of ink ribbons; Holding, feeding, or guiding means therefor

5/00 Autographic registers or like apparatus for manifolding by means of pressure-sensitive layers, using movable strips or webs (movable-strip writing or reading apparatus B42D 19/00)

- with means for limiting movements of webs fed by hand
- with mechanisms for feeding webs or for arranging web feed; with web-storage arrangements
- 5/06 • by means of rollers, wheels, or chains
- 5/08 • by reciprocating mechanisms
- 5/10 with mechanisms for feeding the pressure-sensitive web or webs separately from the other webs, e.g. transversely
- with means for indicating exhaustion of web supply
- with auxiliary means for printing, perforating, or severing the web
- Accessories, e.g. drawers for storing forms, for money (cash registers G07G)

Apparatus or machines for duplicating or printing for office or other commercial purposes

- 7/00 Apparatus for directly duplicating from hectographic originals, i.e. for obtaining copies in mirror image
- by passing original and copy-sheet or -web between rollers
- 7/04 with means for guiding original or copy-sheet or web

7/06	• • with means for severing copy-sheet or -web	17/14	of two-cylinder type, e.g. co-operating forme and impression cylinders.
7/08	• • with means for moistening or drying	17/16	impression cylindersof three-cylinder type
9/00	Apparatus for indirectly duplicating from hectographic originals by means of hectographic	17/18	 for multicolour printing, e.g. tandem machines; for
	intermediaries or transfer surfaces, i.e. "dry	17/20	perfectingwithout damping means, e.g. using heat-activatable
9/02	duplicators"Containers for clay or gelatin		inks, refrigerated printing surfaces
		17/22	 Driving gear; Control thereof
9/04	 with flat supports over which gelatin-paper is stretched 	17/24	Attachments, e.g. for punching, cutting, severing
9/06	 and with carriages for feeding the sheets 	19/00	Duplicating or printing apparatus or machines for
9/08	 and with devices for rolling-in and securing 		office or other commercial purposes, of special types
	hectographic gelatin-paper webs		or for particular purposes and not otherwise
9/10	 with rotary cylinders carrying sheets of hectographic 		provided for (addressing machines B41L 45/00)
	gelatin-paper	19/02	 having forme cylinders carrying a plurality of printing surfaces, or for performing letterpress and
11/00	Apparatus for directly duplicating from		lithographic processes selectively or in combination
	hectographic masters in mirror image, i.e. "wet		(in general B41F 11/00)
	duplicators" for producing positive copies	19/04	 for printing from selected parts of one or more
11/02	 with a flat support carrying the masters 		printing surfaces in one cycle, e.g. line printing (by
11/04	 and with carriages for feeding the sheets 		inking selected areas B41L 27/20)
11/06	 for stack duplicating with pressure rollers 	19/06	 with co-operating forme and impression cylinders
11/08	 with rotary cylinders carrying the masters 	19/08	 • by effecting relative movement of forme and
11/10	 with two rollers between which master is stretched 		impression cylinders during printing cycle
11/12	Driving gear; Control thereof	19/10	 • by projecting and retracting parts of the
11/14	Constructional features of masters (chemical aspects)		surfaces of the forme cylinders
11, 11	B41M)	19/12	• • • by masking parts of the printing surfaces on the forme cylinders
13/00	Stencilling apparatus for office or other commercial	19/14	• • by selective damping of the copy material
157 00	use (screen printing B41F 15/00; stencils, stencil	19/16	• • by selective tripping of impression cylinders
	materials, carriers therefor B41N 1/24)		
13/02	 with flat stencil carriers 		
13/04	 with curved or rotary stencil carriers 		details of, or accessories for, apparatus or machines
13/06	 with a single cylinder carrying the stencil 	<u>for mani</u>	folding, duplicating, or printing for office or other
13/08	• • with stencil carried by two or more cylinders, e.g.	commerc	cial purposes
13/08	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands 		<u>cial purposes</u>
13/08 13/10	• • with stencil carried by two or more cylinders, e.g.	21/00	cial purposes Devices for conveying sheets or webs of copy material through apparatus or machines for
13/10	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers 		Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for
	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil 		Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines
13/10 13/12	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters 	21/00	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24)
13/10	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing 	21/00 21/02	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets
13/10 13/12 13/14	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof 	21/00 21/02 21/04	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins
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13/10 13/12 13/14 13/16	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for 	21/00 21/02 21/04 21/06 21/08	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers
13/10 13/12 13/14 13/16 13/18	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; 	21/00 21/02 21/04 21/06 21/08 21/10	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers • Combinations of endless conveyors and grippers
13/10 13/12 13/14 13/16 13/18 15/00	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) 	21/00 21/02 21/04 21/06 21/08	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers
13/10 13/12 13/14 13/16 13/18	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, 	21/02 21/04 21/06 21/08 21/10 21/12	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers • Combinations of endless conveyors and grippers • for conveying webs
13/10 13/12 13/14 13/16 13/18 15/00	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from 	21/00 21/02 21/04 21/06 21/08 21/10	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or
13/10 13/12 13/14 13/16 13/18 15/00	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber 	21/02 21/04 21/06 21/08 21/10 21/12	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in
13/10 13/12 13/14 13/16 13/18 15/00 15/02	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber • of composed type locked in chases 	21/02 21/04 21/06 21/08 21/10 21/12	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or
13/10 13/12 13/14 13/16 13/18 15/00 15/02	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber • of composed type locked in chases • with curved printing surfaces, e.g. cylinders 	21/02 21/04 21/06 21/08 21/10 21/12	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber • of composed type locked in chases • with curved printing surfaces, e.g. cylinders • with stereotypes 	21/02 21/04 21/06 21/08 21/10 21/12	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g.
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber • of composed type locked in chases • with curved printing surfaces, e.g. cylinders • with stereotypes • for multicolour printing; for perfecting 	21/02 21/04 21/06 21/08 21/10 21/12	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) • by damping, e.g. by moistening copy-sheets in
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber • of composed type locked in chases • with curved printing surfaces, e.g. cylinders • with stereotypes • for multicolour printing; for perfecting • Driving gear; Control thereof 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) • by damping, e.g. by moistening copy-sheets in connection with hectographic printing
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber • of composed type locked in chases • with curved printing surfaces, e.g. cylinders • with stereotypes • for multicolour printing; for perfecting 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) • by damping, e.g. by moistening copy-sheets in
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing Driving gear; Control thereof Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber of composed type locked in chases with curved printing surfaces, e.g. cylinders with stereotypes for multicolour printing; for perfecting Driving gear; Control thereof Attachments, e.g. for punching, cutting, severing 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) • by damping, e.g. by moistening copy-sheets in connection with hectographic printing
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/02 15/04 15/06 15/08 15/10 15/12	 • with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands • Clips or clamps for securing stencils to stencil carriers • for special purposes, e.g. for reproducing Braille characters • Attachments, e.g. for punching, cutting, severing • Driving gear; Control thereof • Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) • with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber • of composed type locked in chases • with curved printing surfaces, e.g. cylinders • with stereotypes • for multicolour printing; for perfecting • Driving gear; Control thereof • Attachments, e.g. for punching, cutting, severing Lithographic printing apparatus for office or other 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00 23/02	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) • by damping, e.g. by moistening copy-sheets in connection with hectographic printing • using friction rollers
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing Driving gear; Control thereof Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber of composed type locked in chases with curved printing surfaces, e.g. cylinders with stereotypes for multicolour printing; for perfecting Driving gear; Control thereof Attachments, e.g. for punching, cutting, severing Lithographic printing apparatus for office or other commercial purposes (in general B41F; printing plates 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00 23/02 23/04 23/06	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) for conveying sheets Pins Grippers Combinations of endless conveyors and grippers for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) by damping, e.g. by moistening copy-sheets in connection with hectographic printing using friction rollers using brushes
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 17/00	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing Driving gear; Control thereof Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber of composed type locked in chases with curved printing surfaces, e.g. cylinders with stereotypes for multicolour printing; for perfecting Driving gear; Control thereof Attachments, e.g. for punching, cutting, severing Lithographic printing apparatus for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00 23/02 23/04 23/06 23/08	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) • by damping, e.g. by moistening copy-sheets in connection with hectographic printing • using friction rollers • using spray elements • using endless bands
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/02 15/04 15/06 15/08 15/10 15/12 15/14 17/00	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing Driving gear; Control thereof Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber of composed type locked in chases with curved printing surfaces, e.g. cylinders with stereotypes for multicolour printing; for perfecting Driving gear; Control thereof Attachments, e.g. for punching, cutting, severing Lithographic printing apparatus for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) for direct impression printing 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00 23/02 23/04 23/06 23/08 23/10 23/12	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) • by damping, e.g. by moistening copy-sheets in connection with hectographic printing • using friction rollers • using spray elements • using absorbent pads
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 17/00	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing Driving gear; Control thereof Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber of composed type locked in chases with curved printing surfaces, e.g. cylinders with stereotypes for multicolour printing; for perfecting Driving gear; Control thereof Attachments, e.g. for punching, cutting, severing Lithographic printing apparatus for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) for direct impression printing with flat printing surfaces 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00 23/02 23/04 23/06 23/08 23/10	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) for conveying sheets Pins Grippers Combinations of endless conveyors and grippers for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) by damping, e.g. by moistening copy-sheets in connection with hectographic printing using friction rollers using spray elements using absorbent pads
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 17/00 17/02 17/04 17/06	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing Driving gear; Control thereof Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber of composed type locked in chases with curved printing surfaces, e.g. cylinders with stereotypes for multicolour printing; for perfecting Driving gear; Control thereof Attachments, e.g. for punching, cutting, severing Lithographic printing apparatus for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) for direct impression printing with flat printing surfaces with curved printing surfaces with curved printing surfaces, e.g. cylinders 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00 23/02 23/04 23/06 23/08 23/10 23/12	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) • for conveying sheets • Pins • Grippers • Suction-operated grippers • Combinations of endless conveyors and grippers • for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) • by damping, e.g. by moistening copy-sheets in connection with hectographic printing • using friction rollers • using spray elements • using spray elements • using absorbent pads • Ducts, containers, or like supply devices for
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 17/00 17/02 17/04 17/06 17/08	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing Driving gear; Control thereof Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber of composed type locked in chases with curved printing surfaces, e.g. cylinders with stereotypes for multicolour printing; for perfecting Driving gear; Control thereof Attachments, e.g. for punching, cutting, severing Lithographic printing apparatus for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) for direct impression printing with flat printing surfaces with curved printing surfaces, e.g. cylinders for offset printing 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00 23/02 23/04 23/06 23/08 23/10 23/12 23/14	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) for conveying sheets Pins Grippers Combinations of endless conveyors and grippers for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) by damping, e.g. by moistening copy-sheets in connection with hectographic printing using friction rollers using spray elements using spray elements using absorbent pads Ducts, containers, or like supply devices for liquids
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 17/00 17/02 17/04 17/06	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing Driving gear; Control thereof Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber of composed type locked in chases with curved printing surfaces, e.g. cylinders with stereotypes for multicolour printing; for perfecting Driving gear; Control thereof Attachments, e.g. for punching, cutting, severing Lithographic printing apparatus for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) for direct impression printing with flat printing surfaces with curved printing surfaces, e.g. cylinders for offset printing with flat printing surfaces, e.g. co-operating with 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00 23/02 23/04 23/06 23/08 23/10 23/12 23/14	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) for conveying sheets Pins Corippers Combinations of endless conveyors and grippers for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) by damping, e.g. by moistening copy-sheets in connection with hectographic printing using friction rollers using spray elements using absorbent pads using absorbent pads Ducts, containers, or like supply devices for liquids Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements therefor
13/10 13/12 13/14 13/16 13/18 15/00 15/02 15/04 15/06 15/08 15/10 15/12 15/14 17/00 17/02 17/04 17/06 17/08	 with stencil carried by two or more cylinders, e.g. through the intermediary of endless bands Clips or clamps for securing stencils to stencil carriers for special purposes, e.g. for reproducing Braille characters Attachments, e.g. for punching, cutting, severing Driving gear; Control thereof Inking units [3] Letterpress printing apparatus specially adapted for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) with flat printing surfaces, e.g. with flat type-beds, surfaces made of thin sheet material or moulded from plastics or rubber of composed type locked in chases with curved printing surfaces, e.g. cylinders with stereotypes for multicolour printing; for perfecting Driving gear; Control thereof Attachments, e.g. for punching, cutting, severing Lithographic printing apparatus for office or other commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) for direct impression printing with flat printing surfaces with curved printing surfaces, e.g. cylinders for offset printing 	21/00 21/02 21/04 21/06 21/08 21/10 21/12 23/00 23/02 23/04 23/06 23/08 23/10 23/12 23/14	Devices for conveying sheets or webs of copy material through apparatus or machines for manifolding, duplicating, or printing (mechanisms for conveying copy material through addressing machines or like series-printing machines B41L 47/24) for conveying sheets Pins Grippers Combinations of endless conveyors and grippers for conveying webs Devices for treating the surface of sheets, webs, or other articles in connection with printing (cleaning in general B08B, of metals C23G; as a final step in the manufacture of such articles, see the relevant places, e.g. B29C 71/00, D21H 23/00 or D21H 25/00; aftertreatment of prints B41M 7/00) by damping, e.g. by moistening copy-sheets in connection with hectographic printing using friction rollers using spray elements using spray elements using absorbent pads Ducts, containers, or like supply devices for liquids Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements

23/20	 by heat drying, by cooling, by applying powders 	29/22	 for attaching printing formes to intermediate
23/22	 Powdering devices, e.g. for preventing set-off 		supports, e.g. adapter members
23/24	 Print-finishing devices, e.g. for glossing prints 	24 /00	De territorio de la constantida del constantida de la constantida del constantida de la constantida de la constantida de la constantida de la constantida del constantida
		31/00	Devices for removing flexible printing formes from
25/00	Devices for damping printing surfaces, e.g.		forme cylinders
	moistening printing surfaces in connection with	33/00	Pressing flexible printing formes or sheets or webs or
	lithographic printing (applying liquids or other fluent	337 00	copy material against cylinders, e.g. for smoothing
	materials to surfaces, in general B05)		purposes
25/02	 using friction rollers 		FF
25/04	 using brushes 	35/00	Cylinders for apparatus or machines for
25/06	 using spraying elements 		manifolding, duplicating, or printing for office or
25/08	 using endless bands 		other commercial purposes
25/10	 using absorbent pads 	35/02	Forme cylinders
25/12	 Ducts, containers, or like supply devices for liquids 	35/04	Registering devices
25/14	 Inking rollers serving also to apply ink repellent 	35/06	• • with means for displacing the cylinders
25/16	 Devices for tripping or lifting damping rollers; 	35/08	• • • with means for displacing the printing formes
	Supporting, adjusting, or removing arrangements	33, 33	on the cylinders
	therefor	35/10	Impression cylinders
25/18	 Construction of damping rollers 	35/12	 Bearings or supports for forme, offset or transfer, or
		33/12	impression cylinders
27/00	Inking arrangements or devices (inking units for	35/14	 Means for heating or cooling forme or impression
	stencilling apparatus B41L 13/18; applying liquids or	33/14	cylinders
	other fluent materials to surfaces, in general B05) [3]	35/16	 Cylinder-tripping devices; Cylinder-impression
27/02	 adapted for inking by hand 	33/10	adjustments
27/04	 Ducts, containers, supply devices or ink-level control 	25/10	
	devices (level control in general G05D 9/00) [3]	35/18	 Arrangements or dispositions of cylinder bearings forks, or supports
27/06	Duct-blades or like supply devices	25/20	
27/08	Troughs or like reservoirs with immersed, or	35/20	• • • Eccentric bearings
_,, 00	partly immersed, rollers	35/22	Sliding bearings
27/10	 with ink-ejection means, e.g. pumps, nozzles 	35/24	• • • Swinging bearings
27/12	Feed or duct rollers (messenger or moving transfer	35/26	 Cylinder-lifting or adjusting devices
2//12	rollers B41L 27/16)	35/28	 Cams, eccentrics, wedges, or the like
27/14	• • adjustable for regulating supply	35/30	 electrically or magnetically operated
	 • Messenger or other moving transfer rollers 	35/32	• • fluid-pressure operated
27/16	-	35/34	 Guards or covers, e.g. for safety purposes, for
27/18	Continuous, e.g. endless-band, apparatus		preventing egress or ingress of foreign matter
27/20	 for inking selected parts of printing formes 		
27/22	 Ink-removing or collecting devices 	38/00	Devices for attaching coverings or make-ready
27/24	 for inking from interior of cylinder 		devices; Guiding devices for coverings (make-ready
27/26	 Absorbent pads 		devices B41N 6/00; blankets or like coverings
27/28	 Construction of inking rollers 		B41N 10/00) [5]
27/30	 Spray apparatus, e.g. containing brushes 	38/02	 attaching to impression cylinders [5]
27/32	 Arrangements for tripping, lifting, adjusting, or 	38/04	 attaching of endless or like continuously-fed
	removing inking rollers; Supports, bearings, or forks		coverings [5]
	therefor	20.400	
27/34	 Lifting or adjusting devices 	39/00	Indicating, counting, warning, control or safety
27/36	Cams, eccentrics, wedges, or the like devices		devices (ink-level control devices B41L 27/04; such
27/38	• • • fluid-pressure operated		devices in general, <u>see</u> the relevant subclasses, e.g.
27/40	• • • magnetically operated	20 /02	counting in general G06M) [3]
27740	inagnetically operated	39/02	Indicating devices, e.g. counters
29/00	Devices for attaching printing elements or formes to	39/04	Tripping devices or stop-motions
	supports	39/06	• for starting or stopping operation of sheet or web
29/02	magnetic		feed
29/04	 for attaching printing elements to flat type-beds 	39/08	 for starting or stopping operation of cylinders
29/06	 for attaching printing elements to forme cylinders 	39/10	 for starting or stopping operation of damping or
29/08	 for attaching printing formes to flat type-beds 		inking units
		39/12	 for starting or stopping the machines as a whole
29/10	for attaching non-deformable curved printing formes to forme gulinders.	39/14	 Automatic control of tripping devices by feelers,
20.742	to forme cylinders		photoelectric devices, pneumatic devices, or other
29/12	 for attaching flexible printing formes 		detectors
29/14	Clamping devices	39/16	 Programming systems for automatic control of
29/16	operating automatically during operation of		sequence of operations
	rotary machines to attach the printing formes to		
	the forme cylinders	41/00	Cleaning arrangements or devices
29/18	• • • electromagnetic, pneumatic, or hydraulic	41/02	 for forme cylinders
29/20	 for adjusting position of leading edges of 	41/04	 for inking rollers
	flexible printing formes circumferentially of	41/06	 for offset cylinders
	forme cylinders		

43/00	Auxiliary folding, collecting, or depositing of sheets	47/24	Mechanisms for conveying copy material through addressing mechanisms or like society printing mechanisms.
43/02	or webs • Folding		addressing machines or like series-printing machines (in general B65H)
	_	47/26	for conveying or positioning single sheet-like
43/04	• lengthwise	47720	articles, e.g. envelopes
43/06	• • crosswise	47/28	 with gauging-rulers or the like, e.g. for facilitating
43/08	Folding-cylinders or -drums Collection	17720	hand-printing of copy material fed from stacks
43/10	• Collecting	47/30	 for conveying webs
43/12	• • and stapling	47/32	 combined with devices for other purposes, e.g.
43/14	Adding inserts		for cutting, severing, gluing
43/16	 Depositing 	47/34	• • • specially adapted for conveying chains of forms
		47/36	 for conveying sheets or webs for tabulating
Addressi	ng machines or like series-printing machines		purposes; Tabulating mechanisms combined with sheet or web conveyors
45/00	Kinds or types of addressing machines or of like	47/38	• • with clamping means for head or margin
	series-printing machines	47/40	• • with means for automatically reciprocating
45/02	 using printing plates 		sheet or web transversely to enable addresses to
45/04	composed on type-setting machines		be printed in columns side by side
45/06	 for addressing combined with other operations, 	47/42	 Printing mechanisms
	e.g. franking, collating documents	47/44	 using flat platens
45/08	 with printing surfaces in the form of belts, or carried 	47/46	 using line-contact members, e.g. rollers, cylinders
	by chains	47/48	 with inking or ink-ribbon devices
45/10	 for addressing combined with other operations, 	47/50	 using multiple impression-members or -surfaces,
	e.g. franking, collating documents		e.g. for printing series of addresses with standing
45/12	with separate devices for printing additional texts or		context, for printing from selected parts of printing
	images, e.g. for printing receipts on blank sheets or		surfaces (applications of counting, numbering, or
	webs	47/52	dating apparatus B41L 49/02)
47/00	Details of addressing machines or like series-printing	4//32	 with movable counter-pressure plates for printing from selected areas of printing surfaces
	machines (common details of printing machines	47/54	with means for automatically reciprocating
	B41F 21/00-B41F 35/00)	47754	printing plate transversely to enable addresses to
47/02	 Applications of printing surfaces in addressing 		be printed in columns side by side
47/02	machines or like series-printing machines (printing	47/56	be printed in columns side by side • Indicating, warning, control or safety devices
	machines or like series-printing machines (printing surfaces in general B41N)	47/56	 be printed in columns side by side Indicating, warning, control or safety devices (B41L 47/58 takes precedence)
47/04	machines or like series-printing machines (printing surfaces in general B41N)of flat or curved plates for relief printing	47/56 47/58	 Indicating, warning, control or safety devices
47/04 47/06	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils 		 Indicating, warning, control or safety devices (B41L 47/58 takes precedence)
47/04 47/06 47/08	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing 		 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code
47/04 47/06 47/08 47/10	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains 	47/58	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches,
47/04 47/06 47/08	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for 	47/58 47/60	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections
47/04 47/06 47/08 47/10	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting 	47/58	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position
47/04 47/06 47/08 47/10 47/12	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils 	47/58 47/60 47/62	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators
47/04 47/06 47/08 47/10	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling 	47/58 47/60	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without
47/04 47/06 47/08 47/10 47/12	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates 	47/58 47/60 47/62	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-
47/04 47/06 47/08 47/10 47/12 47/14 47/16	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines 	47/58 47/60 47/62	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by
47/04 47/06 47/08 47/10 47/12 47/14 47/16 47/18	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane 	47/58 47/60 47/62	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons, with programme control by
47/04 47/06 47/08 47/10 47/12 47/14 47/16	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane Devices for feeding the plates otherwise than in 	47/58 47/60 47/62	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by
47/04 47/06 47/08 47/10 47/12 47/14 47/16 47/18 47/20	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto 	47/58 47/60 47/62	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons, with programme control by punched tapes Accessories or attachments for addressing machines
47/04 47/06 47/08 47/10 47/12 47/14 47/16 47/18	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto with means for presenting plates for repeated 	47/58 47/60 47/62 47/64 49/00	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons, with programme control by punched tapes Accessories or attachments for addressing machines or like series-printing machines
47/04 47/06 47/08 47/10 47/12 47/14 47/16 47/18 47/20	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto 	47/58 47/60 47/62 47/64 49/00 49/02	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons, with programme control by punched tapes Accessories or attachments for addressing machines or like series-printing machines Counting, numbering, or dating devices
47/04 47/06 47/08 47/10 47/12 47/14 47/16 47/18 47/20	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto with means for presenting plates for repeated 	47/58 47/60 47/62 47/64 49/00	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons, with programme control by punched tapes Accessories or attachments for addressing machines or like series-printing machines Counting, numbering, or dating devices Devices for applying selection markings to printing
47/04 47/06 47/08 47/10 47/12 47/14 47/16 47/18 47/20	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto with means for presenting plates for repeated 	47/58 47/60 47/62 47/64 49/00 49/02	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons, with programme control by punched tapes Accessories or attachments for addressing machines or like series-printing machines Counting, numbering, or dating devices
47/04 47/06 47/08 47/10 47/12 47/14 47/16 47/18 47/20	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto with means for presenting plates for repeated printing operations 	47/58 47/60 47/62 47/64 49/00 49/02 49/04	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons, with programme control by punched tapes Accessories or attachments for addressing machines or like series-printing machines Counting, numbering, or dating devices Devices for applying selection markings to printing plates
47/04 47/06 47/08 47/10 47/12 47/14 47/16 47/18 47/20	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto with means for presenting plates for repeated printing operations PRINTING, DUPLICATING, MARKING, OR COPYIN	47/58 47/60 47/62 47/64 49/00 49/02 49/04 G PROCES	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons, with programme control by punched tapes Accessories or attachments for addressing machines or like series-printing machines Counting, numbering, or dating devices Devices for applying selection markings to printing plates SES; COLOUR PRINTING (correction of typographical
47/04 47/06 47/08 47/10 47/12 47/14 47/16 47/18 47/20	 machines or like series-printing machines (printing surfaces in general B41N) of flat or curved plates for relief printing of flat or curved stencils of flat or curved plates for hectographic printing of printing surfaces in the form of belts or chains Auxiliary devices, e.g. for flattening plates, for assembling plates in predetermined order, for wetting stencils Devices or arrangements for storing or handling plates Magazines Devices for feeding the plates in their plane Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto with means for presenting plates for repeated printing operations 	47/58 47/60 47/62 47/64 49/00 49/02 49/04 G PROCES	 Indicating, warning, control or safety devices (B41L 47/58 takes precedence) Arrangements or devices for selecting, or for facilitating selection of, text or image to be printed Markings applied to printing plates, e.g. code marks, colours, clips, perforations, edge notches, projections Selecting devices, e.g. cams, windows, position indicators Automatic selecting devices with or without overriding manual control, e.g. with scanning-fingers, with presetting controls operable by push-buttons, with programme control by punched tapes Accessories or attachments for addressing machines or like series-printing machines Counting, numbering, or dating devices Devices for applying selection markings to printing plates SES; COLOUR PRINTING (correction of typographical

1/00	Inking and printing with a printer's forme	1/16 • using different inks which flow into one another to
1/02	 Letterpress printing, e.g. book printing 	produce iridescent effects
1/04	Flexographic printing	1/18 • • Printing one ink over another
1/06	Lithographic printing	1/20 • • by applying differently-coloured inks
1/08	Dry printing	simultaneously to different parts of the printing
1/10	Intaglio printing	surface
1/12	 Stencil printing; Silk-screen printing 	1/22 • Metallic printing; Printing with powdered inks
1/14	Multicolour printing	

1/24	• combined with embossing (printing machines for carrying out printing operations combined with	5/26	• Thermography (B41M 5/20, B41M 5/24 take precedence; photothermographic systems G03C 1/498) [5]
1/26	embossing B41F 19/02) [2] • Printing on other surfaces than ordinary paper (P41M 1/40 takes precedence)	5/28	using thermo-chromic compounds or layers
1/28	(B41M 1/40 takes precedence) • • on metals		containing liquid crystals, microcapsules, bleachable dyes or heat decomposable
1/30	 on organic plastics, horn, or like materials 		compounds, e.g. gas liberating [5]
1/32	• • on rubber	5/30	 using chemical colour formers (B41M 5/34 takes
1/34	on glass or ceramic surfaces		precedence) [5]
	_	5/32	one component thereof being a heavy metal
1/36	 on pretreated paper, e.g. on parchment, oiled paper, paper for registration purposes 		compound [5]
1/38	on wooden surfaces, leather, or linoleum (printing on matches or match boxes when combined with	5/323	dyes [2006.01]
	match manufacture C06F 1/18)	5/327	9.
1/40	Printing on bodies of particular shapes	5/333	
1/42	Printing without contact between forme and surface		acidic compounds [2006.01]
17 12	to be printed, e.g. by using electrostatic fields [2]	5/337	 • • Additives; Binders [2006.01]
	to be printed, e.g. by doing electrostatic fields [2]	5/34	 Multicolour thermography [5]
3/00	Printing processes to produce particular kinds of	5/36	 using a polymeric layer, which may be particulate
	printed work, e.g. patterns (special designs or pictures	5750	and which is deformed or structurally changed
	per se B44F; manufacturing printed circuits using		with modification of its properties, e.g. of its
	printing techniques H05K 3/12) [5]		optical, hydrophobic-hydrophilic, solubility or
3/02	Maps; Sea or meteorological charts		permeability properties [5]
3/04	Music	5/382	
		3/302	(sublistatic printing B41M 5/035; ink-, dye- or
3/06	Veined printings; Fluorescent printings; Stereoscopic images: Imiteted patterns, e.g., tissues, taytiles [5].		pigment-receptive coatings B41M 5/50) [2006.01]
D /40	images; Imitated patterns, e.g. tissues, textiles [5]	5/385	
3/10	Watermarks	3/303	pigments [2006.01]
3/12	 Transfer pictures or the like, e.g. decalcomanias 	E /200	• •
3/14	 Security printing 	5/388	• • • • Azo dyes [2006.01]
3/16	 Braille printing (typewriters or selective printing mechanisms for Braille printing B41J 3/32) [2] 	5/39	 • • • Dyes containing one or more carbon-to- nitrogen double bonds, e.g.
3/18	Particular kinds of wallpapers	5/392	azomethine [2006.01] • • • Additives other than colour forming substances,
5/00	Duplicating or marking methods; Sheet materials for		dyes or pigments, e.g. sensitisers, transfer
-,	use therein (by using light-sensitive materials G03;		promoting agents [2006 01]
			promoting agents [2006.01]
		5/395	promoting agents [2006.01] • • • • Macromolecular additives, e.g.
5/025	electrography, magnetography G03G)	5/395	
5/025 5/03	electrography, magnetography G03G)by transferring ink from the master sheet [4]	5/395 5/398	• • • • Macromolecular additives, e.g. binders [2006.01]
5/03	electrography, magnetography G03G)by transferring ink from the master sheet [4]by pressure [4]	0,000	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness
5/03 5/035	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] 	5/398	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01]
5/03 5/035 5/04	electrography, magnetography G03G)by transferring ink from the master sheet [4]by pressure [4]	5/398	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means
5/03 5/035	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like 	5/398	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions
5/03 5/035 5/04	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin 	5/398	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration;
5/03 5/035 5/04	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like 	5/398	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by
5/03 5/035 5/04 5/06	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin 	5/398 5/40	 • • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5]
5/03 5/035 5/04 5/06 5/08 5/10	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like 	5/398 5/40 5/41	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • • Base layers [2006.01]
5/03 5/035 5/04 5/06 5/08	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. 	5/398 5/40 5/41 5/42	 • • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • • Base layers [2006.01] • • Intermediate or covering layers [2006.01]
5/03 5/035 5/04 5/06 5/08 5/10	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by 	5/398 5/40 5/41	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • • Base layers [2006.01]
5/03 5/035 5/04 5/06 5/08 5/10 5/124	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] 	5/398 5/40 5/41 5/42 5/44	 • • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01]
5/03 5/035 5/04 5/06 5/08 5/10	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, 	5/398 5/40 5/41 5/42	 • • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • • characterised by the macromolecular compounds [2006.01] • • characterised by the light-to-heat converting
5/03 5/035 5/04 5/06 5/08 5/10 5/124	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] 	5/398 5/40 5/41 5/42 5/44	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • • characterised by the macromolecular compounds [2006.01] • • characterised by the light-to-heat converting means; characterised by the heat or radiation
5/03 5/035 5/04 5/06 5/08 5/10 5/124	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives 	5/398 5/40 5/41 5/42 5/44 5/46	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01]
5/03 5/035 5/04 5/06 5/08 5/10 5/124	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] 	5/398 5/40 5/41 5/42 5/44	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers
5/03 5/035 5/04 5/06 5/08 5/10 5/124	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives 	5/398 5/40 5/41 5/42 5/44 5/46	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers or compositions; Special originals for
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/128	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] 	5/398 5/40 5/41 5/42 5/44 5/46	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01]
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/128 5/132	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] Organic colour formers, e.g. leuco dyes [5] with a lactone or lactam ring [5] 	5/398 5/40 5/41 5/42 5/44 5/46	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/132 5/136 5/145 5/15	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] Organic colour formers, e.g. leuco dyes [5] with a lactone or lactam ring [5] Spiro-pyrans [5] 	5/398 5/40 5/41 5/42 5/44 5/46	 • • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to improve ink, dye or pigment receptivity, e.g. for ink-
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/132 5/136 5/145	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] Organic colour formers, e.g. leuco dyes [5] with a lactone or lactam ring [5] Spiro-pyrans [5] Colour-developing components, e.g. acidic 	5/398 5/40 5/41 5/42 5/44 5/46	 • • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • • characterised by the macromolecular compounds [2006.01] • • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to improve ink, dye or pigment receptivity, e.g. for inkjet or thermal dye transfer recording (printing on
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/132 5/136 5/145 5/15	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] Organic colour formers, e.g. leuco dyes [5] with a lactone or lactam ring [5] Spiro-pyrans [5] Colour-developing components, e.g. acidic compounds; Additives or binders therefor; 	5/398 5/40 5/41 5/42 5/44 5/46 5/48	 • • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to improve ink, dye or pigment receptivity, e.g. for inkjet or thermal dye transfer recording (printing on pretreated paper B41M 1/36) [2006.01]
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/132 5/136 5/145 5/15	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] Organic colour formers, e.g. leuco dyes [5] with a lactone or lactam ring [5] Spiro-pyrans [5] Colour-developing components, e.g. acidic compounds; Additives or binders therefor; Layers containing such colour-developing 	5/398 5/40 5/41 5/42 5/44 5/46	 • • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • • characterised by the macromolecular compounds [2006.01] • • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to improve ink, dye or pigment receptivity, e.g. for inkjet or thermal dye transfer recording (printing on
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/128 5/132 5/136 5/145 5/15	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] Organic colour formers, e.g. leuco dyes [5] with a lactone or lactam ring [5] Spiro-pyrans [5] Colour-developing components, e.g. acidic compounds; Additives or binders therefor; Layers containing such colour-developing components, additives or binders [5] 	5/398 5/40 5/41 5/42 5/44 5/46 5/48 5/50	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to improve ink, dye or pigment receptivity, e.g. for inkjet or thermal dye transfer recording (printing on pretreated paper B41M 1/36) [2006.01] • Macromolecular coatings [2006.01]
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/132 5/136 5/145 5/15	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] Organic colour formers, e.g. leuco dyes [5] or with a lactone or lactam ring [5] Spiro-pyrans [5] Colour-developing components, e.g. acidic compounds; Additives or binders therefor; Layers containing such colour-developing components, additives or binders [5] characterised by the use of microcapsules; Special 	5/398 5/40 5/41 5/42 5/44 5/46 5/48	 • • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • • Base layers [2006.01] • • Intermediate or covering layers [2006.01] • • • characterised by the macromolecular compounds [2006.01] • • • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • • • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to improve ink, dye or pigment receptivity, e.g. for inkjet or thermal dye transfer recording (printing on pretreated paper B41M 1/36) [2006.01] • Macromolecular coatings [2006.01] After-treatment of printed works, e.g. heating,
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/128 5/132 5/136 5/145 5/15 5/155	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] or binders therefor [5] or with a lactone or lactam ring [5] or Spiro-pyrans [5] Colour-developing components, e.g. acidic compounds; Additives or binders therefor; Layers containing such colour-developing components, additives or binders [5] characterised by the use of microcapsules; Special solvents for incorporating the ingredients [5] 	5/398 5/40 5/41 5/42 5/44 5/46 5/48 5/50	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to improve ink, dye or pigment receptivity, e.g. for inkjet or thermal dye transfer recording (printing on pretreated paper B41M 1/36) [2006.01] • Macromolecular coatings [2006.01] After-treatment of printed works, e.g. heating, irradiating
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/128 5/132 5/136 5/145 5/15	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] or by organic colour formers, e.g. leuco dyes [5] with a lactone or lactam ring [5] Spiro-pyrans [5] Colour-developing components, e.g. acidic compounds; Additives or binders therefor; Layers containing such colour-developing components, additives or binders [5] characterised by the use of microcapsules; Special solvents for incorporating the ingredients [5] using electric current (B41M 5/24 takes 	5/398 5/40 5/41 5/42 5/44 5/46 5/48 5/50	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to improve ink, dye or pigment receptivity, e.g. for inkjet or thermal dye transfer recording (printing on pretreated paper B41M 1/36) [2006.01] • Macromolecular coatings [2006.01] After-treatment of printed works, e.g. heating, irradiating • Dusting; Varnishing (devices for treating the surfaces
5/03 5/035 5/04 5/06 5/08 5/10 5/124 5/128 5/132 5/136 5/145 5/15 5/155	 electrography, magnetography G03G) by transferring ink from the master sheet [4] by pressure [4] by sublimation or volatilisation of design [4] using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [5] using master sheets coated with jelly-like materials, e.g. gelatin Sheet materials therefor by using carbon paper or the like using pressure to make a masked colour visible, e.g. to make a coloured support visible, to create an opaque or transparent pattern, or to form colour by uniting colour-forming components [5] Desensitisers; Compositions for fault correction, detection or identification of the layers [5] Chemical colour-forming components; Additives or binders therefor [5] or binders therefor [5] or with a lactone or lactam ring [5] or Spiro-pyrans [5] Colour-developing components, e.g. acidic compounds; Additives or binders therefor; Layers containing such colour-developing components, additives or binders [5] characterised by the use of microcapsules; Special solvents for incorporating the ingredients [5] 	5/398 5/40 5/41 5/42 5/44 5/46 5/48 5/50	 • • • Macromolecular additives, e.g. binders [2006.01] • Processes based on the production of stickiness patterns using powders [2006.01] • characterised by the base, intermediate or covering layers; Heat, radiation filtering or absorbing means or layers; combined with layers or compositions suitable for other methods of image registration; Special originals for reproduction by thermography [5] • Base layers [2006.01] • Intermediate or covering layers [2006.01] • characterised by the macromolecular compounds [2006.01] • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01] • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01] • Recording sheets characterised by the coating used to improve ink, dye or pigment receptivity, e.g. for inkjet or thermal dye transfer recording (printing on pretreated paper B41M 1/36) [2006.01] • Macromolecular coatings [2006.01] After-treatment of printed works, e.g. heating, irradiating

recording [5]

3/06

3/08

• by use of detergents

• Damping; Neutralising or similar differentiation treatments of lithographic printing formes [5]

9/00 9/02	Processes wherein make-ready devices are used (make-ready devices per se B41N 6/00) [5] • Relief make-readies	9/04 99/00	 photomechanical Subject matter not provided for in other groups of this subclass [2006.01]
B41N	PRINTING PLATES OR FOILS (photosensitive materi MACHINES FOR PRINTING, INKING, DAMPING, CONSERVING THEM		
1/00	Printing plates or foils; Materials therefor	6/00	Mounting boards; Make-ready devices, e.g.
1/02	• made of stone		underlays, overlays; Attaching by chemical means, e.g. vulcanising [5]
1/04	• metallic	6/02	Chemical means for fastening printing formes on
1/06	for relief printing or intaglio printing	0/02	mounting boards [5]
1/08	for lithographic printing		
1/10	• • • multiple	7/00	Shells for rollers of printing machines
1/12	non-metallic other than stone	7/02	• of leather
1/14	Lithographic printing foils	7/04	 for damping rollers
1/16	Curved printing plates, especially cylinders	7/06	 for inking rollers [5]
1/18	made of stonemade of metal	10/00	Plant to a 121 and a tomo Constitution for the configuration
1/20		10/00	Blankets or like coverings; Coverings for wipers for intaglio printing (wipers for intaglio printing
1/22	• • made of other substances		B41F 9/08) [5]
1/24	 Stencils; Stencil materials; Carriers therefor (stencilling apparatus for office or other commercial 	10/02	• Blanket structure [5]
	use B41L 13/00)	10/04	multi-layer [5]
	doc B (IE 15/00)	10/06	 facilitating fastening to, or location on,
3/00	Preparing for use or conserving printing surfaces	10/00	supports [5]
3/03	 Chemical or electrical pretreatment [5] 		
3/04	• Graining or abrasion by mechanical means (chemical graining B41N 3/03) [5]	11/00	Stereotype mats
		99/00	Subject matter not provided for in other groups of

99/00

Subject matter not provided for in other groups of this subclass [2006.01]