SECTION B — PERFORMING OPERATIONS; TRANSPORTING

PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS

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

Su	bcl	ass	ind	lex

1/00

1/22

HAND COMPOSING	1/00
MECHANICAL COMPOSING	
Using prefabricated type; making type	3/00, 5/00
By casting the type	7/00, 9/00, 11/00
PHOTOGRAPHIC COMPOSING	
Machines composing lines prior to photography	15/00
Machines without means for composing lines prior to photography	17/00
Electronic machines	19/00
Equipment for special work	13/00
Details of machines; auxiliaries	21/00, 23/00
PREPARATION OF RECORD CARRIERS	25/00
CONTROL, INDICATING, SAFETY	27/00

	Chases, quoins, or galleys [1, 2006.01]
1/02	 Printing letters or type [1, 2006.01]
1/04	 Quadrats or quads; Spaces or other
	justifiers [1, 2006.01]
1/06	 for special purposes [1, 2006.01]
1/08	 for inserting latest news [1, 2006.01]
1/10	 for inserting advertisements [1, 2006.01]
1/12	 for setting musical notations [1, 2006.01]
1/14	 Composing rules, e.g. of brass [1, 2006.01]
1/16	• Reglets [1, 2006.01]
1/18	• Chases [1, 2006.01]
1/20	 Quoins or other binding means [1, 2006.01]

Elements or appliances for hand composition;

Washing or cleaning devices therefor [1, 2006.01]
1/24 • Washing or cleaning devices [1, 2006.01]

• Composing tables; Type cases; Storage cabinets;

- 1/26 Composing or setting sticks **[1, 2006.01]**
- 1/28 Galleys [1, 2006.01]

Machines or other mechanical apparatus for composing

3/00	Apparatus for mechanical composition using
	prefabricated type, i.e. without casting
	equipment [1, 2006.01]

- Mechanical composing machines using single types or logotypes and having slide magazines therefor, e.g. flat, cylindrical, radial, single magazines [1, 2006.01]
- 3/04 Means for distributing type **[1, 2006.01]**
- 3/06 Justifying means [1, 2006.01]
- **Devices for making type or lines** (for mechanical composition B41B 7/00, B41B 9/00, B41B 11/00) **[1, 2006.01]**
- 5/02 Matrices [1, 2006.01]
- 5/04 Casting devices **[1, 2006.01]**

- 5/06 • mechanically operated **[1, 2006.01]**
- 5/08 Tools or auxiliaries **[1, 2006.01]**
- 5/10 for polishing or finishing type (polishing in general B24B) [1, 2006.01]
- 5/12 for making type in the form of lines, e.g. by drawing or casting [1, 2006.01]
- 5/14 • for cutting spaces **[1, 2006.01]**
- 7/00 Kinds or types of apparatus for mechanical composition in which the type is cast or moulded from matrices [1, 2006.01]
- 7/02 operating with fixed combinations of matrices (details B41B 9/00) [1, 2006.01]
- 7/04 • for casting individual characters or spaces, e.g. "monotype" machines [1, 2006.01]
- for composing, justifying, and casting complete lines of matrices, e.g. "monoline" machines [1, 2006.01]
- operating with separate matrices for individual characters or spaces which are selected and assembled (details B41B 11/00) [1, 2006.01]
- 7/10 in which a line is composed of matrices and in which single types or spaces are cast, e.g. stringer type [1, 2006.01]
- in which a justified line is composed of matrices and a type line is cast in one piece [1, 2006.01]
- 7/14 • the matrices being composed by hand **[1, 2006.01]**
- 7/16 • the lines of matrices being composed and justified by machine operation, e.g. "linotype", "intertype" machines [1, 2006.01]
- 7/18 • the matrices being guided by wires, e.g. "typograph" machines [1, 2006.01]

9/00	Details of, or accessories for, machines for mechanical composition using fixed combinations of	11/50	 Vice frames; Devices for releasing or locking [1, 2006.01]
	matrices from which type is cast or moulded [1, 2006.01]	11/52	 Moulding or casting devices or associated mechanisms [1, 2006.01]
9/02	 Combinations of matrices [1, 2006.01] 	11/54	 Moulds; Liners therefor [1, 2006.01]
9/04	 Carriers for combinations of matrices, e.g. blocks, cylinders, wheels, bars [1, 2006.01] 	11/56	 • Mould wheels; Slides or driving gear therefor [1, 2006.01]
9/06	 Mechanisms for effecting relative movements of 	11/58	• • • • with locking wedges [1, 2006.01]
	matrix carriers and moulds for character or space	11/60	• • • • adjustable or removable [1, 2006.01]
	selection [1, 2006.01]	11/62	• • • • with interchangeable moulds [1, 2006.01]
9/08	 Moulding or casting devices [1, 2006.01] 	11/64	• • • • with a series of moulds and mechanism for
9/10	 Moulds [1, 2006.01] 		selecting individual moulds [1, 2006.01]
9/12	 Justifying devices [1, 2006.01] 	11/66	• • • mounted on reciprocable carriages [1, 2006.01]
9/14	• • Supply devices for molten metal [1, 2006.01]	11/68	 • with provision for adjusting length or width of
9/16	 Devices for handling type after casting [1, 2006.01] 		slot; with a plurality of slots [1, 2006.01]
9/18	 Ejector mechanisms [1, 2006.01] 	11/70	 for casting type-bars of special form, e.g. with
9/20	 Trimming devices [1, 2006.01] 		projections [1, 2006.01]
11/00	Details of, or accessories for, machines for	11/72	 Devices for trimming type-bars; Cleaning devices for trimming knives; Ejectors for type-
	mechanical composition using matrices for		bars [1, 2006.01]
	individual characters which are selected and assembled for type casting or moulding [1, 2006.01]	11/74	• • Devices for supplying molten metal [1, 2006.01]
11/02	• Matrices [1, 2006.01]	11/76	• • Pots (melting pots for casting stereotype plates
11/02	• Space bands [1, 2006.01]		B41D 3/20) [1, 2006.01]
11/04	Storage devices for matrices or space	11/78	• • • movable towards, and away from,
117 00	bands [1, 2006.01]	11/00	mould [1, 2006.01]
11/08	 Magazines for matrices [1, 2006.01] 	11/80	• • • with stirrers or means for removing dross [1, 2006.01]
11/10	• • • for composing by hand [1, 2006.01]	11/82	• • • • associated with mechanisms for introducing
11/12	 Attachment of magazines to machines; 	11/02	metal in solid form [1, 2006.01]
	Magazine-selection or magazine-shift	11/84	• • • Throats or mouthpieces; Wipers for
	mechanisms (controlling selection or shifting		mouthpieces [1, 2006.01]
11/11	B41B 27/42) [1, 2006.01]	11/86	• • • Heaters for pots; Temperature-control
11/14	• • • with escapement devices [1, 2006.01]		devices [1, 2006.01]
11/16	Boxes for space bands; Escapements or guides for releasing space bands [1, 2006.01] Boxes for space bands [1, 2006.01]	11/88	 Pumps; Stop-motions or safety devices therefor [1, 2006.01]
11/18	Devices or arrangements for assembling matrices and space bands (control devices therefor BALD 37(44) 14, 2006 011. BALD 37(44) 14, 2006 011.	11/90	 Arrangements or devices for distributing matrices or space bands after casting or moulding [1, 2006.01]
11/20	B41B 27/44) [1, 2006.01]	11/92	 Second elevators [1, 2006.01]
11/20	 Assembler guide channels [1, 2006.01] Assembler cover plates or framework [1, 2006.01]	11/94	• • Screw conveyors [1, 2006.01]
11/24	Belt conveyors co-operating with assembler	11/96	• Devices for cooling or cleaning matrices [1, 2006.01]
	guides [1, 2006.01]	D .	
11/26	• Devices for feeding or guiding space bands into association with matrices [1, 2006.01]		phic or photoelectronic composing devices
11/28	Star wheels or other stacking devices for matrices and space bands; Guides associated	13/00	Equipment specially adapted for photographing mounted characters or the like, e.g. advertisements,
11/20	therewith [1, 2006.01]	13/02	lines [1, 2006.01]the characters being composed or mounted by hand,
11/30	 Assembler elevators or associated mechanisms, e.g. braking devices, retaining pawls, line 	13/02	and photographed simultaneously [1, 2006.01]
	resistants, delivery slides [1, 2006.01]	13/04	 with means for justifying [1, 2006.01]
11/32	• • Transfer channels or line-delivery	13/06	• • • by elastic or extensible type-line
11/34	carriages [1, 2006.01] • First elevators or associated	13/08	carriers [1, 2006.01] • • by optical line correction [1, 2006.01]
11/54	mechanisms [1, 2006.01]	13/10	 the characters being progressively photographed one
11/36	 for presenting matrices or space bands directly to moulds [1, 2006.01] 	13, 10	by one [1, 2006.01]
11/38	 Devices for aligning or clamping lines of matrices and space bands [1, 2006.01] 	15/00	Photographic composing machines with movable character carriers for composing lines of characters
11/40	Jaw clamps; Operating devices therefor [1, 2006.01]	15/02	prior to photography [1, 2006.01]with means for photographing complete
11/42	• • • for quadding and centring [1, 2006.01]		lines [1, 2006.01]
11/44	• • • for justifying [1, 2006.01]	15/04	• • and with carriers for individual
11/46	• • Aligning devices [1, 2006.01]	15 (00	characters [1, 2006.01]
11/48	• • Cleaning devices for aligning jaws (cleaning matrices B41B 11/96) [1, 2006.01]	15/06	 and with carriers for complete sets of characters, e.g. slidable elongated members, rotary wheels [1, 2006.01]

15/08	 with means for photographing composed characters in succession [1, 2006.01] 	19/02	 the characters appearing on the screen in succession [1, 3, 2006.01]
15/10	• Details [1, 2006.01]	19/04	
15/10	Character carriers; Cleaning devices	19/04	at the same place [1, 3, 2006.01]at different predetermined
	therefor [1, 2006.01]		places [1, 3, 2006.01]
15/14	 with a single character, or with combinations of different styles of a single 	19/08	 with combinations of characters appearing on the screen at the same time [1, 3, 2006.01]
	character [1, 2006.01]	19/10	• • • in unbroken lines or columns [1, 3, 2006.01]
15/16	 • with combinations of different 	19/12	• • • in broken lines or columns [1, 3, 2006.01]
	characters [1, 2006.01]	19/14	 and presenting a text of more than one
15/18	 • with parts of characters for building up 		line [1, 3, 2006.01]
	complex characters, e.g. oriental characters [1, 2006.01]	19/16	• • Character carriers associated with electron-beam tubes [1, 3, 2006.01]
15/20	 Devices for handling or storing character 		
	carriers [1, 2006.01]	21/00	Common details of photographic composing
15/22	• • • Magazines [1, 2006.01]		machines of the kinds covered in groups B41B 17/00
15/24	• • • for justifying purposes [1, 2006.01]	21 /02	and B41B 19/00 [1, 2006.01]Shutters in optical systems (in general
15/26	• • • for repeating a character [1, 2006.01]	21/02	G03B) [1, 2006.01]
15/28	Photographic devices (in general	21/04	 for selecting characters [1, 2006.01]
45 /00	G03) [1, 2006.01]	21/04	 for adjusting exposures [1, 2006.01]
15/30	• • • Composing cameras [1, 2006.01]	21/08	 Light sources; Devices associated therewith, e.g.
15/32	• • • Film-handling mechanisms [1, 2006.01]	21/00	control devices [1, 2006.01]
15/34	• • • Adjusting enlargement or register; Correcting	21/10	 Single light sources [1, 2006.01]
	exposure time [1, 2006.01]	21/10	 Stroboscopic light sources [1, 2006.01]
17/00	Photographic composing machines having fixed or	21/12	 Combinations of light sources [1, 2006.01]
17700	movable character carriers and without means for	21/14	
	composing lines prior to photography [1, 2006.01]	21/10	• Optical systems (shutters B41B 21/02; light sources B41B 21/08) [1, 2006.01]
17/02	with manually-adjustable character carriers to enable	21/18	 defining a single optical path [1, 2006.01]
	characters to be photographed in	21/20	• • • with means for moving stepwise [1, 2006.01]
	succession [1, 2006.01]	21/22	• • • with means for moving
17/04	 with a carrier for all characters in at least one 	21,22	continuously [1, 2006.01]
	fount [1, 2006.01]	21/24	defining multiple optical paths [1, 2006.01]
17/06	 with an adjustable carrier [1, 2006.01] 	21/26	• • with means for selecting individual optical
17/08	 with a fixed carrier [1, 2006.01] 		paths (means for moving the optical path
17/10	• • with a continuously-movable carrier [1, 2006.01]		B41B 17/12) [1, 2006.01]
17/12	 with means for moving the optical path for 	21/28	• • with means for fount selection [1, 2006.01]
	photographing characters, e.g.	21/30	Electron-beam tubes or charactrons (in general
45/44	intermittently [1, 2006.01]		H01J 31/00) [1, 2006.01]
17/14	• • • continuously [1, 2006.01]	21/32	• Film carriers; Film-conveying or -positioning device
17/16	with means for moving the film in its plane for photographing characters in		(film-handling means in line-composing
	photographing characters in succession [1, 2006.01]		photographic devices B41B 15/32; machines with
17/18	• Details [1, 2006.01]		means for moving the film in its plane for
17/10	Character carriers; Cleaning devices		photographing characters in succession B41B 17/16) [1, 2006.01]
1//20	therefor [1, 2006.01]	21/34	 with positioning mechanisms [1, 2006.01]
17/22	• • with a single character; with a single character	21/34	 • • for feeding films stepwise in line
17,722	in more than one style [1, 2006.01]	21/30	direction [1, 2006.01]
17/24	• • • with all characters [1, 2006.01]	21/38	• • • for feeding films continuously in line
17/26	• • • • on belts [1, 2006.01]	21/50	direction [1, 2006.01]
17/28	• • • • on polygonal rods [1, 2006.01]	21/40	• • • for line spacing [1, 2006.01]
17/30	• • • on a sheet of square or rectangular	21/42	• • for subscript or superscript
17750	shape [1, 2006.01]		notation [1, 2006.01]
17/32	• • • • on a flat disc [1, 2006.01]	21/44	• • adjustable for enlarging purposes [1, 2006.01]
17/34	• • • • on a cylinder [1, 2006.01]		3 3 31 1 1 2
17/36	• • • with selection indicators [1, 2006.01]	23/00	Auxiliary devices for modifying, mixing, or
17/38	• • • with means for indicating the		correcting text or layout in connection with
. 30	width [1, 2006.01]		photographic or photoelectronic
17/40	• • • • in caliper form [1, 2006.01]	22/02	composing [1, 2006.01]
17/42	• • • • in coded form [1, 2006.01]	23/02	 for mixing by line-by-line projection of parts of texts from a number of films on to another [1, 2006.01]
		23/04	 for facilitating hand correction of texts [1, 2006.01]
19/00	Photoelectronic composing machines [1, 3, 2006.01]	23/04	_
19/01	having electron-beam tubes producing an image of at	23/00	 for correcting texts by removing incorrect lines from one film and splicing-in corrected lines from another
	least one character which is		film [1, 2006.01]
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D41D			
machines	record carriers used for controlling composing s; Control, indicating, or safety devices or systems for ng machines of various kinds or types	27/16 27/18 27/20	 on magnetic tapes [1, 2006.01] from memory devices [1, 2006.01] from electromagnetic devices, e.g. memory
25/00	Apparatus specially adapted for preparation of record carriers for controlling composing machines (for casting individual characters or spaces, e.g. in "monotype" machines, B41B 7/04; methods for marking or reproducing record carriers having digital data thereon in general G06K 1/00) [1, 2006.01]	27/22 27/24 27/26	 matrices [1, 2006.01] from several sources [1, 2006.01] of several associated machines [1, 2006.01] with means for temporarily arresting input of recorded or stored information to introduce time delays [1, 2006.01]
25/10	 incorporating devices for line justification, e.g. counting and indicating devices for length of line [1, 2006.01] 	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 courses B41B 21/00) [1, 2006 01]
25/12 25/14	 comprising elements which circulate from and to magazines [1, 2006.01] operating without space bands [1, 2006.01] 	27/30	 light sources B41B 21/08) [1, 2006.01] for arresting or varying speed of one operation in response to failure or variation in speed of another operation [1, 2006.01]
25/16 25/18	 using a binary code for the width of the matrices [1, 2006.01] combined with type-setting machines [1, 2006.01] 	27/32 27/34	for line-justification operations [1, 2006.01]without the use of space bands [1, 2006.01]
25/20 25/22	 Auxiliary devices; Devices serving special purposes [1, 2006.01] for indicating length of line [1, 2006.01] 	27/36 27/38	 • using electronic devices [1, 2006.01] • for measuring length of composed lines; for reading composed characters [1, 2006.01]
25/24 25/26	 for error correction [1, 2006.01] for changing the fount of type [1, 2006.01] 	27/40 27/41	 • for proof-printing operations [1, 2006.01] • Printing mechanisms coupled to typographical composing machines [1, 2006.01]
27/00	Control, indicating, or safety devices or systems for composing machines of various kinds or types (computers in general G06F) [1, 2006.01]	27/42 27/44	 for controlling selection of shifting of matrix magazines [1, 2006.01] for controlling assembly of matrices and space
27/02	• Systems for controlling all operations [1, 2006.01]		bands [1, 2006.01]
27/04	• • Keyboards [1, 2006.01]	27/46	• • • for controlling insertion of space bands (for line
27/06	• • • operable by input of recorded or stored information, e.g. on punched tapes [1, 2006.01]	27/48	 justification B41B 27/32) [1, 2006.01] for deleting errors or inserting corrections (devices, non-fluid media or methods for
27/08 27/10	 • • • from several sources [1, 2006.01] • with direct control of all operations by input of recorded or stored information [1, 2006.01] 		cancelling or correcting errors in typewriters or selective printing mechanisms B41J 29/26) [1, 2006.01]
27/12	• • • on tapes [1, 2006.01]	27/50	 operated by coupled machines [1, 2006.01]
27/14	• • • on punched tapes [1, 2006.01]	27730	operated by coupled machines [1, 2000.01]
B41C	PROCESSES FOR THE MANUFACTURE OR REPROD E for producing printing surfaces G03F; photoelectrical processes		
1/00 1/02	 Forme preparation [1, 2006.01] Engraving; Heads therefor (recording on record carriers, heads therefor G11B) [1, 5, 2006.01] 	1/10	 for lithographic printing; Master sheets for transferring a lithographic image to the forme (B41C 1/055 takes precedence; neutralising or

1/00	 Engraving; Heads therefor (recording on record carriers, heads therefor G11B) [1, 5, 2006.01] Note(s) [5] 	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) [1, 5, 2006.01]
	Attention is drawn to the title of class B41 and to	1/12	 Multicolour formes [1, 2006.01]
	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) [1, 5, 2006.01]
1/04	 using heads controlled by an electric information signal [1, 2006.01] 	1/16	• Formes with areas rendered ink-resistant by covering with an amalgam; Printing plates for amalgam
1/045	• • • Mechanical engraving heads [5, 2006.01]		printing [1, 5, 2006.01]
1/05	 Heat-generating engraving heads, e.g. laser beam, electron beam [5, 2006.01] 	1/18	 Curved printing formes or printing cylinders [1, 2006.01]
1/055	• Thermographic processes for producing formes (B41C 1/02 takes precedence) [5, 2006.01]	3/00	Reproduction or duplicating of printing formes [1, 2006.01]
1/06	 Transferring (B41C 1/10, B41C 1/18 take precedence) [1, 5, 2006.01] 	3/02	 Stereotyping (casting stereotype plates B41D 3/00) [1, 2, 2006.01]
1/08	• by embossing, e.g. with a typewriter (typewriters adapted therefor B41J 3/38) [1, 2006.01]	3/04 3/06 3/08	 to produce rubber printing blocks [1, 2006.01] to produce printing blocks from plastics [1, 2006.01] Electrotyping; Application of backing layers thereon [1, 5, 2006.01]

APPARATUS FOR THE MECHANICAL REPRODUCTION OF PRINTING SURFACES FOR STEREOTYPE PRINTING; SHAPING ELASTIC OR DEFORMABLE MATERIAL TO FORM PRINTING SURFACES (marking or 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)

1/00	Preparing or treating stereotype	3/20	• • Melting pots [1, 2006.01]
	matrices [1, 2006.01]	3/22	 • with pumps for conveying the molten metal
1/02	 using brushes [1, 2006.01] 		into the casting chambers or boxes [1, 2006.01]
1/04	 using cylinders or rollers [1, 2006.01] 	3/24	 • with control valves [1, 2006.01]
1/06	 using presses, e.g. toggle or like lever-and-link type presses [1, 2006.01] 	3/26	• • • with devices for stirring the molten metal [1, 2006.01]
1/08	 using hydraulic presses [1, 2006.01] 	3/28	 Devices for cooling the moulds [1, 2006.01]
1/10	 Performing secondary operations on matrices [1, 2006.01] 	5/00	Working, treating, or handling stereotype plates [1, 2006.01]
1/12	 Humidifying or moistening [1, 2006.01] 	5/02	•
1/14	• • Drying [1, 2006.01]		• by bending [1, 2006.01]
		5/04	• of flat plates [1, 2006.01]
D 1	and the transport of the same	5/06	• of curved plates [1, 2006.01]
Producir	g printing surfaces	7/00	Shaping elastic or deformable material, e.g. rubber,
		7,00	
3/00	Casting stereotype plates; Machines, moulds, or devices therefor [1, 2006.01]		plastics material, to form printing surfaces (making rubber printing blocks B41C 3/04) [1, 2006.01]
3/00 3/02	devices therefor [1, 2006.01]	7/02	
	 devices therefor [1, 2006.01] Horizontal moulds for casting flat plates [1, 2006.01] Moulds, e.g. horizontal, for casting curved, e.g. semicylindrical, plates [1, 2006.01] 	7/02 7/04	 rubber printing blocks B41C 3/04) [1, 2006.01] by impression [1, 2006.01] Forming printing surfaces by covering printing forms with a thin elastic skin, e.g. rubber foil, and retaining
3/02	 devices therefor [1, 2006.01] Horizontal moulds for casting flat plates [1, 2006.01] Moulds, e.g. horizontal, for casting curved, e.g. semi- 		 rubber printing blocks B41C 3/04) [1, 2006.01] by impression [1, 2006.01] 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
3/02 3/04	 devices therefor [1, 2006.01] Horizontal moulds for casting flat plates [1, 2006.01] Moulds, e.g. horizontal, for casting curved, e.g. semicylindrical, plates [1, 2006.01] 		 rubber printing blocks B41C 3/04) [1, 2006.01] by impression [1, 2006.01] 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
3/02 3/04 3/06	 devices therefor [1, 2006.01] Horizontal moulds for casting flat plates [1, 2006.01] Moulds, e.g. horizontal, for casting curved, e.g. semicylindrical, plates [1, 2006.01] Vertical moulds [1, 2006.01] Moulds, e.g. horizontal, for casting tubular, i.e. 		 rubber printing blocks B41C 3/04) [1, 2006.01] by impression [1, 2006.01] 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
3/02 3/04 3/06 3/08	 devices therefor [1, 2006.01] Horizontal moulds for casting flat plates [1, 2006.01] Moulds, e.g. horizontal, for casting curved, e.g. semicylindrical, plates [1, 2006.01] Vertical moulds [1, 2006.01] Moulds, e.g. horizontal, for casting tubular, i.e. cylindrical, plates [1, 2006.01] 		 rubber printing blocks B41C 3/04) [1, 2006.01] by impression [1, 2006.01] 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
3/02 3/04 3/06 3/08 3/10	 devices therefor [1, 2006.01] Horizontal moulds for casting flat plates [1, 2006.01] Moulds, e.g. horizontal, for casting curved, e.g. semicylindrical, plates [1, 2006.01] Vertical moulds [1, 2006.01] Moulds, e.g. horizontal, for casting tubular, i.e. cylindrical, plates [1, 2006.01] Vertical moulds [1, 2006.01] Multiple-mould stereotype casting 		 rubber printing blocks B41C 3/04) [1, 2006.01] by impression [1, 2006.01] 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
3/02 3/04 3/06 3/08 3/10 3/12	 devices therefor [1, 2006.01] Horizontal moulds for casting flat plates [1, 2006.01] Moulds, e.g. horizontal, for casting curved, e.g. semicylindrical, plates [1, 2006.01] Vertical moulds [1, 2006.01] Moulds, e.g. horizontal, for casting tubular, i.e. cylindrical, plates [1, 2006.01] Vertical moulds [1, 2006.01] Multiple-mould stereotype casting machines [1, 2006.01] 	7/04	 rubber printing blocks B41C 3/04) [1, 2006.01] by impression [1, 2006.01] 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) [1, 2006.01]

B41F PRINTING MACHINES OR PRESSES (manifolding devices or office printing machines B41L) [4]

Note(s) [6]

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

moulds [1, 2006.01]

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	21/00, 25/00, 22/00, 23/00
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, 2006.01]

1/02 • Hand-operated platen presses [1, 2006.01]

1/04 • for mono-impression printing, e.g. on sheets [1, 2006.01]

1/06	 with platen maintained parallel to bed during movement [1, 2006.01] 	3/24 • • • with cylinders travelling around type-beds having upper and lower printing	
1/08	• • on webs [1, 2006.01]	surfaces [1, 2006.01]	
1/10	• for multi-impression printing in one or more colours, e.g. on webs [1, 2006.01]	3/26 • with type-beds and impression cylinders simultaneously movable relative to one	
1/12	• • on sheets [1, 2006.01]	another [1, 2006.01]	
1/14	• • • using swinging platens, or forme supports [1, 2006.01]	 Proof-print presses for relief printing, lithograph or intaglio printing, i.e. presses for checking accuracy of printing surfaces [1, 2006.01] 	ohy
1/16	• for offset printing [1, 2006.01]	3/30 • for lithography (proof-print presses	
1/18	• for lithography [1, 2006.01]	B41F 3/28) [1, 2006.01]	
1/20	 for perfecting sheets, i.e. for printing on both sides of sheets [1, 2006.01] 	3/32 • • • Damping devices [1, 2006.01]	
1/22	 specially adapted for printing heads, e.g. letter 	3/34 • • • for offset printing [1, 2006.01]	
	heads [1, 2006.01]	3/36 • • for intaglio or heliogravure printing (proof-prin	nt
1/24	 specially adapted for proof printing [1, 2006.01] 	presses B41F 3/28) [1, 2006.01] 3/38 • • • Wiping mechanisms [1, 2006.01]	
1/26	• Details [1, 2006.01]	3/38 • • • Wiping mechanisms [1, 2006.01] 3/40 • • for perfecting sheets, i.e. for printing on both s	ahi
1/28	Sheet-conveying, -aligning or -clamping	thereof [1, 2006.01]	iues
1/30	devices [1, 2006.01] • • using rotary grippers [1, 2006.01]	3/42 • for multicolour printing on sheets [1, 2006.01]	
1/32	• • • using air pressure, e.g. vacuum [1, 2006.01]	3/44 • • for monocolour or multicolour printing on one	
1/34	• • • Registering devices, e.g. gauges [1, 2006.01]	side of webs, or for perfecting webs, i.e.	
1/36	 Clamps for conveying sheets and for holding 	monocolour or multicolour printing on both significant states [1, 2006, 0.1]	1es
	same on the platens [1, 2006.01]	of webs [1, 2006.01] 3/46 • Details [1, 2006.01]	
1/38	 Platens or type-beds [1, 2006.01] 	3/48 • Press frames [1, 2006.01]	
1/40	 Inking units [1, 2006.01] 	3/51 • Type-beds; Supports therefor (B41F 3/52 take	
1/42	• • using flat inking elements, e.g.	precedence) [3, 2006.01]	
1/44	discs [1, 2006.01]	3/52 • • Apparatus for cooling, heating, or drying print	ing
1/44 1/46	• using inking ribbons [1, 2006.01]• using rollers [1, 2006.01]	surfaces [1, 3, 2006.01]	
1/48	• • • pivoting around the platen or base [1, 2006.01]	3/54 • Impression cylinders; Supports	
1/50	• • • supported on carriages for movement in or on	therefor [1, 2006.01] 3/56 • • Devices for adjusting cylinders relative to ty	vno.
1,00	runways [1, 2006.01]	beds and setting in adjusted	/pe-
1/52	• • • Carriage driving gear [1, 2006.01]	position [1, 2006.01]	
1/54	 Printing-pressure control devices [1, 2006.01] 	3/58 • • Driving, synchronising, or control	
1/56	 Auxiliary devices [1, 2006.01] 	gear [1, 2006.01]	
1/58	• • Arrangements of counting devices for counting	3/60 • • • for type-beds [1, 2006.01]	
1/60	sheets [1, 2006.01]	3/62 • • • • Applications of linkwork or gearing for producing reciprocatory or angular	
1/60 1/62	• Safety devices [1, 2006.01]• • for preventing injury to operator [1, 2006.01]	motion [1, 2006.01]	
1/64	• • • to the hands of the operator [1, 2006.01]	3/64 • • • • of crank motions [1, 2006.01]	
1/66	responsive to incorrect operating	3/66 • • • • of rack-and-pinion gearing [1, 2006.0]	1]
	conditions [1, 2006.01]	3/68 • • • • • with pinion rotating unidirectionally [1, 2006.01]	
3/00	Cylinder presses, i.e. presses essentially comprising	3/70 • • • Applications of directly-coupled	
	at least one cylinder co-operating with at least one	motors [1, 2006.01]	
3/02	flat type-bed [1, 2006.01]with impression cylinder or cylinders rotating	3/72 • • • • of fluid motors [1, 2006.01]	
3702	unidirectionally [1, 2006.01]	3/74 • • • • Applications of clutches [1, 2006.01]	
3/04	• • intermittently; Stop-cylinder presses [1, 2006.01]	3/76 • • • • Applications of braking devices or of devices for stopping type-bed in registers	ьd
3/06	• • continuously [1, 2006.01]	position [1, 2006.01]	.u
3/08	• • • Single-revolution presses [1, 2006.01]	3/78 • • • • Air cushions [1, 2006.01]	
3/10	• • • Two-revolution presses [1, 2006.01]	3/80 • • • for impression cylinders [1, 2006.01]	
3/12	• • Twin presses, i.e. with more than one cylinder or	3/81 • • Inking units [3, 2006.01]	
2/14	type-bed [1, 2006.01]	3/82 • Auxiliary devices [1, 2006.01]	
3/14	 with impression cylinder or cylinders rotating in opposite directions during each working 	3/84 • • Arrangements of counting devices [1, 2, 2006.	01]
	cycle [1, 2006.01]	3/86 • • Numbering devices [1, 2006.01]	
3/16	 Twin presses, i.e. with more than one cylinder or 		
	type-bed [1, 2006.01]	Rotary machines	
3/18	of special construction or for particular	·	
D / D C	purposes [1, 2006.01]	5/00 Rotary letterpress machines [1, 2006.01]	
3/20	 with fixed type-beds and travelling impression cylinders [1, 2006.01] 	5/02 • for printing on sheets [1, 2006.01]	
	Cymmucis [1, 2000.01]	5/04 • for printing on webs [1, 2006.01]	

• • with several printing units in sequential arrangement [1, 2006.01]

5/06

3/22

• • • with more than one type-bed **[1, 2006.01]**

5/08	• • with several printing units in both superimposed	9/12	• • • with absorbent pads [1, 2006.01]
5/10	and sequential arrangement [1, 2006.01]with several printing units arranged side by	9/14	• • with continuous flexible surfaces, e.g. endless bands [1, 2006.01]
	side [1, 2006.01]	9/16	Removing or recovering ink from wiping
5/12	for printing on one side and on the other side of webs between the same forme and impression which we it 2006 011.	9/18	mechanisms [1, 2006.01] • Auxiliary devices for exchanging forme
5/14	 cylinders [1, 2006.01] with several impression cylinders arranged around 	11 /00	cylinders [1, 2006.01]
5/16	a forme cylinder [1, 2006.01]for multicolour printing [1, 2006.01]	11/00	Rotary presses or machines having forme cylinders carrying a plurality of printing surfaces, or for
5/18	• • using one impression cylinder co-operating		performing letterpress, lithographic, or intaglio processes selectively or in combination [1, 2006.01]
5/20	with several forme cylinders [1, 2006.01] • specially adapted for proof printing [1, 2006.01]	11/02	 for securities (security printing
5/22	• for indirect printing [3, 2006.01]		B41M 3/14) [3, 2006.01]
5/24	• for flexographic printing [3, 2006.01]	13/00	Common details of rotary presses or machines [1, 2006.01]
7/00	Rotary lithographic machines [1, 2006.01]	13/004	• Electric or hydraulic features of drives [6, 2006.01]
7/02	• for offset printing [1, 2006.01]	13/004	 Mechanical features of drives, e.g. gears,
7/04	 using printing units incorporating one forme 	15/000	clutches [6, 2006.01]
	cylinder, one transfer cylinder, and one impression	13/012	• • Taking-up backlash [6, 2006.01]
7.00	cylinder, e.g. for printing on webs [1, 2006.01]	13/016	• Brakes [6, 2006.01]
7/06 7/08	• • for printing on sheets [1, 2006.01]• using one transfer cylinder co-operating with	13/02	 Conveying or guiding webs through presses or machines [1, 2006.01]
	several forme cylinders for printing on sheets or webs, e.g. sampling of colours on one transfer	13/03	 Threading webs into printing
	cylinder [1, 2006.01]		machines [6, 2006.01]
7/10	• • using one impression cylinder co-operating with	13/04	• • intermittently [1, 2006.01]
	several transfer cylinders for printing on sheets or	13/06	• • Turning-bar arrangements [1, 2006.01]
	webs, e.g. satellite-printing units [1, 2006.01]	13/08	• Cylinders [1, 2006.01]
7/12	• using two cylinders one of which serves two	13/10	• • Forme cylinders [1, 2006.01]
	functions, e.g. as a transfer and impression	13/11	• • • Gravure cylinders [6, 2006.01]
7/14	cylinder in perfecting machines [1, 2006.01]	13/12	• • • Registering devices [1, 2006.01]
//14	 with two or more impression cylinders coacting with a single transfer cylinder [1, 2006.01] 	13/14	 • • with means for displacing the cylinders [1, 2006.01]
7/15	• • • for printing on more than one web simultaneously [6, 2006.01]	13/16	• • • with means for displacing the printing formes on the cylinders [1, 2006.01]
7/16	• for printing on non-deformable material, e.g. sheet	13/18	• • Impression cylinders [1, 2006.01]
7/10	metal [1, 2006.01] • specially adapted for proof printing [1, 2006.01]	13/187	• • • for rotogravure [6, 2006.01]
7/18 7/20	 specially adapted for proof printing [1, 2006.01] Details [1, 2006.01] 	13/193	• • Transfer cylinders; Offset cylinders [6, 2006.01]
7/20 7/24	 Details [1, 2006.01] Damping devices [1, 2006.01] 	13/20	• • Supports for bearings or supports for forme, offset,
7/24	• • using transfer rollers [1, 3, 2006.01]	12/21	or impression cylinders [1, 2006.01]
7/28	• • • using brushes [1, 2006.01]	13/21	• • Bearer rings [6, 2006.01]
7/30	• • using spraying elements [1, 2006.01]	13/22	 Means for cooling or heating forme or impression cylinders [1, 2006.01]
7/32	 Ducts, containers, or like supply devices for 	13/24	 Cylinder-tripping devices; Cylinder-impression
7/34	liquids [1, 2006.01]		adjustments [1, 2006.01]
7/34	• • Endless bands [1, 2006.01]• • Inking-rollers serving also to apply ink	13/26 13/28	 • Arrangement of cylinder bearings [1, 2006.01] • • Bearings mounted eccentrically of the
	repellent [1, 2006.01]		cylinder axis [1, 2006.01]
7/37	 • with supercooling for condensation of air moisture [6, 2006.01] 	13/30	• • • Bearings mounted on sliding supports [1, 2006.01]
7/38	• • • Absorbent pads [1, 2006.01]	13/32	• • • Bearings mounted on swinging
7/40	 Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing 	13/34	supports [1, 2006.01] • • • Cylinder-lifting or -adjusting
	arrangements therefor (such arrangements or		devices [1, 2006.01]
	devices for inking rollers B41F 31/30) [1, 2006.01]	13/36	• • • Cams, eccentrics, wedges, or the like [1, 2006.01]
9/00	Rotary intaglio printing presses [1, 2006.01]	13/38	• • • electrically or magnetically operated [1, 2006.01]
9/01	 for indirect printing [3, 5, 2006.01] 	13/40	• • • fluid-pressure operated [1, 2006.01]
9/02	• for multicolour printing [1, 2006.01]	13/42	Guards or covers, e.g. for preventing ingress or
9/04	• specially adapted for proof printing [1, 2006.01]		egress of foreign matter [1, 2006.01]
9/06	• Details [1, 2006.01]	13/44	Arrangements to accommodate interchangeable
9/08	• • Wiping mechanisms [1, 2006.01]		cylinders of different sizes to enable machine to print
9/10	• • with doctors, scrapers, or like	45.1:=	on areas of different sizes [1, 2006.01]
	devices [1, 2006.01]	13/46	• Printing units for inserting latest news [1, 2006.01]

13/48	Arrangements to enable printing to be effected over	17/16	• • • on end or bottom surfaces thereof [1, 2006.01]
	selected areas of a single forme cylinder (by inking selected areas B41F 31/18) [1, 2006.01]	17/18	• • • on curved surfaces of articles of varying cross- section, e.g. bottles, lamp glasses [1, 2006.01]
13/50	 by effecting relative movement of forme and impression cylinders during printing 	17/20	• • • on articles of uniform cross-section, e.g. pencils, rulers, resistors [1, 2006.01]
	cycle [1, 2006.01]	17/22	• • • • by rolling contact [1, 2006.01]
13/52	• • by projecting and retracting parts of the surface of the forme cylinder [1, 2006.01]	17/24	• for printing on flat surfaces of polyhedral articles [1, 2006.01]
13/54	 Auxiliary folding, cutting, collecting or depositing of 	17/26	 by rolling contact [1, 2006.01]
	sheets or webs [1, 2006.01]	17/28	 for printing on curved surfaces of conical or frusto-
13/56	• • Folding or cutting [1, 2006.01]		conical articles [1, 2006.01]
13/58	• • • lengthwise [1, 2006.01]	17/30	 for printing on curved surfaces of essentially
13/60	• • • crosswise [1, 2006.01]	45/20	spherical, or part-spherical, articles [1, 2006.01]
13/62 13/64	• Folding-cylinders or drums [1, 2006.01]• Collecting [1, 2006.01]	17/32	• • on lamp bulbs [1, 2006.01]
13/66	• • • and stapling [1, 2006.01]	17/34	 on articles with surface irregularities, e.g. fruit, nuts [1, 2006.01]
13/68	• • Adding inserts [1, 2006.01]	17/36	for printing on tablets, pills, or like small
13/70	• • Depositing [1, 2006.01]		articles [1, 2006.01]
		17/38	 for printing on knitted fabrics [1, 2006.01]
15/00	Screen printers [1, 2006.01]	10/00	Appropriate or machines for corresing out printing
15/02	• Manually-operable devices [1, 2006.01]	19/00	Apparatus or machines for carrying out printing operations combined with other
15/04	for multicolour printing [1, 2006.01]with auxiliary equipment, e.g. for drying printed		operations [1, 2, 2006.01]
15/06	articles [1, 2006.01]	19/02	• with embossing [1, 2006.01]
15/08	• Machines [1, 2006.01]	19/04	 using intaglio printing formes and
15/10	• • for multicolour printing [1, 2006.01]		wipers [1, 2006.01]
15/12	with auxiliary equipment, e.g. for drying printed	19/06	Printing and embossing between a negative and a
	articles [1, 2006.01]		positive forme after inking and wiping the negative forme; Printing from an ink band treated
15/14	• Details [1, 2006.01]		with colour or "gold" [1, 2006.01]
15/16	• • Printing tables [1, 2006.01]	19/08	• Simultaneous moulding and printing [1, 2006.01]
15/18	• • • Supports for workpieces [1, 2006.01]		3 1 31
15/20	• • • • with suction-operated elements [1, 2006.01]		
15/22	• • • for single sheets [1, 2006.01]	<u>Commor</u>	ı details of printing machinery
15/24	• • • for wobs [1, 2006,01]		
15/24 15/26	• • • • for webs [1, 2006.01] • • • • for articles with flat surfaces [1, 2006.01]	21/00	
15/24 15/26 15/28	• • • for articles with flat surfaces [1, 2006.01]• • • for elongated flat articles, e.g. strips,	21/00	Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01]
15/26 15/28	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] 	21/00 21/02	Devices for conveying sheets through printing apparatus or machines (through platen presses
15/26 15/28 15/30	 • • • for articles with flat surfaces [1, 2006.01] • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • • for articles with curved surfaces [1, 2006.01] 		Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01]
15/26 15/28	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] 	21/02 21/04 21/05	Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] • Pins [1, 3, 5, 2006.01] • Grippers [1, 3, 5, 2006.01] • In-feed grippers [3, 5, 2006.01]
15/26 15/28 15/30	 for articles with flat surfaces [1, 2006.01] for elongated flat articles, e.g. strips, bands [1, 2006.01] for articles with curved surfaces [1, 2006.01] for articles with conical 	21/02 21/04 21/05 21/06	Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01]
15/26 15/28 15/30 15/32	 • • • for articles with flat surfaces [1, 2006.01] • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • for articles with curved surfaces [1, 2006.01] • • for articles with conical surfaces [1, 2006.01] • Screens; Frames; Holders therefor [1, 2006.01] • flat [1, 2006.01] 	21/02 21/04 21/05	Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and
15/26 15/28 15/30 15/32 15/34 15/36 15/38	 • • • for articles with flat surfaces [1, 2006.01] • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • for articles with curved surfaces [1, 2006.01] • • for articles with conical surfaces [1, 2006.01] • Screens; Frames; Holders therefor [1, 2006.01] • flat [1, 2006.01] • curved [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01]
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40	 for articles with flat surfaces [1, 2006.01] for elongated flat articles, e.g. strips, bands [1, 2006.01] for articles with curved surfaces [1, 2006.01] for articles with conical surfaces [1, 2006.01] Screens; Frames; Holders therefor [1, 2006.01] flat [1, 2006.01] curved [1, 2006.01] Inking units [1, 2006.01] 	21/02 21/04 21/05 21/06	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42	 for articles with flat surfaces [1, 2006.01] for elongated flat articles, e.g. strips, bands [1, 2006.01] for articles with curved surfaces [1, 2006.01] for articles with conical surfaces [1, 2006.01] Screens; Frames; Holders therefor [1, 2006.01] flat [1, 2006.01] curved [1, 2006.01] Inking units [1, 2006.01] comprising squeegees or doctors [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01]
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42 15/44	 • • • for articles with flat surfaces [1, 2006.01] • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • for articles with curved surfaces [1, 2006.01] • • for articles with conical surfaces [1, 2006.01] • Screens; Frames; Holders therefor [1, 2006.01] • flat [1, 2006.01] • curved [1, 2006.01] • Inking units [1, 2006.01] • comprising squeegees or doctors [1, 2006.01] • Squeegees or doctors [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01]
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42	 for articles with flat surfaces [1, 2006.01] for elongated flat articles, e.g. strips, bands [1, 2006.01] for articles with curved surfaces [1, 2006.01] for articles with conical surfaces [1, 2006.01] Screens; Frames; Holders therefor [1, 2006.01] flat [1, 2006.01] curved [1, 2006.01] Inking units [1, 2006.01] comprising squeegees or doctors [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01]
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42 15/44	 • • • for articles with flat surfaces [1, 2006.01] • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • for articles with curved surfaces [1, 2006.01] • • for articles with conical surfaces [1, 2006.01] • Screens; Frames; Holders therefor [1, 2006.01] • flat [1, 2006.01] • curved [1, 2006.01] • Inking units [1, 2006.01] • comprising squeegees or doctors [1, 2006.01] • Squeegees or doctors [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08 21/10	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42 15/44	 • • • for articles with flat surfaces [1, 2006.01] • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • for articles with curved surfaces [1, 2006.01] • • for articles with conical surfaces [1, 2006.01] • Screens; Frames; Holders therefor [1, 2006.01] • flat [1, 2006.01] • curved [1, 2006.01] • Inking units [1, 2006.01] • comprising squeegees or doctors [1, 2006.01] • Squeegees or doctors [1, 2006.01] • with two or more operative parts [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01]
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42 15/44 15/46	 • • • for articles with flat surfaces [1, 2006.01] • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • for articles with curved surfaces [1, 2006.01] • • for articles with conical surfaces [1, 2006.01] • Screens; Frames; Holders therefor [1, 2006.01] • flat [1, 2006.01] • curved [1, 2006.01] • curved [1, 2006.01] • comprising squeegees or doctors [1, 2006.01] • Squeegees or doctors [1, 2006.01] • with two or more operative parts [1, 2006.01] Transfer printing apparatus [4, 2006.01] • for textile material [4, 2006.01] Printing apparatus or machines of special types or for particular purposes, not otherwise provided 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or printed articles (B41F 23/00 takes
15/26 15/28 15/30 15/32 15/34 15/36 15/40 15/42 15/44 15/46 16/00 16/02 17/00	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • • for articles with curved surfaces [1, 2006.01] • • • for articles with conical surfaces [1, 2006.01] • • Screens; Frames; Holders therefor [1, 2006.01] • • flat [1, 2006.01] • • curved [1, 2006.01] • • comprising squeegees or doctors [1, 2006.01] • • squeegees or doctors [1, 2006.01] • • with two or more operative parts [1, 2006.01] Transfer printing apparatus [4, 2006.01] • for textile material [4, 2006.01] Printing apparatus or machines of special types or for particular purposes, not otherwise provided for [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14 22/00	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or printed articles (B41F 23/00 takes precedence) [6, 2006.01] Devices for treating the surfaces of sheets, webs or other articles in connection with printing [1, 2006.01] by dampening (in rotary lithographic machines
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42 15/44 15/46 16/00 16/02 17/00	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • • for articles with curved surfaces [1, 2006.01] • • • for articles with conical surfaces [1, 2006.01] • • Screens; Frames; Holders therefor [1, 2006.01] • • flat [1, 2006.01] • • curved [1, 2006.01] • • curved [1, 2006.01] • • comprising squeegees or doctors [1, 2006.01] • Squeegees or doctors [1, 2006.01] • with two or more operative parts [1, 2006.01] Transfer printing apparatus [4, 2006.01] • for textile material [4, 2006.01] Printing apparatus or machines of special types or for particular purposes, not otherwise provided for [1, 2006.01] • for printing books or manifolding sets [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14 22/00 23/00	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or printed articles (B41F 23/00 takes precedence) [6, 2006.01] Devices for treating the surfaces of sheets, webs or other articles in connection with printing [1, 2006.01] by dampening (in rotary lithographic machines B41F 7/24) [1, 2006.01]
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42 15/44 15/46 16/00 16/02 17/00	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • • for articles with curved surfaces [1, 2006.01] • • • for articles with conical surfaces [1, 2006.01] • • Screens; Frames; Holders therefor [1, 2006.01] • • flat [1, 2006.01] • • curved [1, 2006.01] • • comprising squeegees or doctors [1, 2006.01] • Squeegees or doctors [1, 2006.01] • with two or more operative parts [1, 2006.01] Transfer printing apparatus [4, 2006.01] • for textile material [4, 2006.01] Printing apparatus or machines of special types or for particular purposes, not otherwise provided for [1, 2006.01] • for printing books or manifolding sets [1, 2006.01] • for printing calendars [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14 22/00	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or printed articles (B41F 23/00 takes precedence) [6, 2006.01] Devices for treating the surfaces of sheets, webs or other articles in connection with printing [1, 2006.01] by dampening (in rotary lithographic machines B41F 7/24) [1, 2006.01] by heat drying, by cooling, by applying
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42 15/44 15/46 16/00 16/02 17/00	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • • for articles with curved surfaces [1, 2006.01] • • • for articles with conical surfaces [1, 2006.01] • • Screens; Frames; Holders therefor [1, 2006.01] • • flat [1, 2006.01] • • curved [1, 2006.01] • • comprising squeegees or doctors [1, 2006.01] • • Squeegees or doctors [1, 2006.01] • • with two or more operative parts [1, 2006.01] Transfer printing apparatus [4, 2006.01] • for textile material [4, 2006.01] Printing apparatus or machines of special types or for particular purposes, not otherwise provided for [1, 2006.01] • for printing books or manifolding sets [1, 2006.01] • for printing on filamentary or elongated articles or material, or on articles with cylindrical 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14 22/00 23/00	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or printed articles (B41F 23/00 takes precedence) [6, 2006.01] Devices for treating the surfaces of sheets, webs or other articles in connection with printing [1, 2006.01] by dampening (in rotary lithographic machines B41F 7/24) [1, 2006.01] by heat drying, by cooling, by applying powders [1, 2006.01] Powdering devices, e.g. for preventing set-
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42 15/44 15/46 16/00 16/02 17/00	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • • for articles with curved surfaces [1, 2006.01] • • • for articles with conical surfaces [1, 2006.01] • • Screens; Frames; Holders therefor [1, 2006.01] • • flat [1, 2006.01] • • curved [1, 2006.01] • • curved [1, 2006.01] • • comprising squeegees or doctors [1, 2006.01] • • Squeegees or doctors [1, 2006.01] • • with two or more operative parts [1, 2006.01] Transfer printing apparatus [4, 2006.01] • for textile material [4, 2006.01] Printing apparatus or machines of special types or for particular purposes, not otherwise provided for [1, 2006.01] • for printing books or manifolding sets [1, 2006.01] • for printing calendars [1, 2006.01] • for printing on filamentary or elongated articles or material, or on articles with cylindrical surfaces [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14 22/00 23/00 23/02 23/04 23/06	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or printed articles (B41F 23/00 takes precedence) [6, 2006.01] Devices for treating the surfaces of sheets, webs or other articles in connection with printing [1, 2006.01] by dampening (in rotary lithographic machines B41F 7/24) [1, 2006.01] by heat drying, by cooling, by applying powders [1, 2006.01] Powdering devices, e.g. for preventing set-off [1, 2006.01]
15/26 15/28 15/30 15/32 15/34 15/36 15/40 15/42 15/44 15/46 16/00 16/02 17/00	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • • for articles with curved surfaces [1, 2006.01] • • • for articles with conical surfaces [1, 2006.01] • • Screens; Frames; Holders therefor [1, 2006.01] • • flat [1, 2006.01] • • curved [1, 2006.01] • • comprising squeegees or doctors [1, 2006.01] • • Squeegees or doctors [1, 2006.01] • • with two or more operative parts [1, 2006.01] Transfer printing apparatus [4, 2006.01] • for textile material [4, 2006.01] Printing apparatus or machines of special types or for particular purposes, not otherwise provided for [1, 2006.01] • for printing books or manifolding sets [1, 2006.01] • for printing on filamentary or elongated articles or material, or on articles with cylindrical 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14 22/00 23/00 23/02 23/04	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or printed articles (B41F 23/00 takes precedence) [6, 2006.01] Devices for treating the surfaces of sheets, webs or other articles in connection with printing [1, 2006.01] by dampening (in rotary lithographic machines B41F 7/24) [1, 2006.01] by heat drying, by cooling, by applying powders [1, 2006.01] Powdering devices, e.g. for preventing setoff [1, 2006.01] Print-finishing devices, e.g. for glossing
15/26 15/28 15/30 15/32 15/34 15/36 15/40 15/42 15/44 15/46 16/00 16/02 17/00	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • • for articles with curved surfaces [1, 2006.01] • • • for articles with conical surfaces [1, 2006.01] • • Screens; Frames; Holders therefor [1, 2006.01] • • flat [1, 2006.01] • • curved [1, 2006.01] • • curved [1, 2006.01] • • comprising squeegees or doctors [1, 2006.01] • Squeegees or doctors [1, 2006.01] • • with two or more operative parts [1, 2006.01] Transfer printing apparatus [4, 2006.01] • for textile material [4, 2006.01] Printing apparatus or machines of special types or for particular purposes, not otherwise provided for [1, 2006.01] • for printing books or manifolding sets [1, 2006.01] • for printing on filamentary or elongated articles or material, or on articles with cylindrical surfaces [1, 2006.01] • on articles or material of indefinite length, e.g. 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14 22/00 23/02 23/04 23/06 23/08	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or printed articles (B41F 23/00 takes precedence) [6, 2006.01] Devices for treating the surfaces of sheets, webs or other articles in connection with printing [1, 2006.01] by dampening (in rotary lithographic machines B41F 7/24) [1, 2006.01] by heat drying, by cooling, by applying powders [1, 2006.01] Powdering devices, e.g. for preventing setoff [1, 2006.01] Print-finishing devices, e.g. for glossing prints [1, 2006.01]
15/26 15/28 15/30 15/32 15/34 15/36 15/38 15/40 15/42 15/44 15/46 16/00 16/02 17/00 17/02 17/04 17/08	 • • • for articles with flat surfaces [1, 2006.01] • • • for elongated flat articles, e.g. strips, bands [1, 2006.01] • • • for articles with curved surfaces [1, 2006.01] • • • for articles with conical surfaces [1, 2006.01] • • Screens; Frames; Holders therefor [1, 2006.01] • • flat [1, 2006.01] • • curved [1, 2006.01] • • curved [1, 2006.01] • • comprising squeegees or doctors [1, 2006.01] • • Squeegees or doctors [1, 2006.01] • • with two or more operative parts [1, 2006.01] Transfer printing apparatus [4, 2006.01] • for textile material [4, 2006.01] Printing apparatus or machines of special types or for particular purposes, not otherwise provided for [1, 2006.01] • for printing books or manifolding sets [1, 2006.01] • for printing on filamentary or elongated articles or material, or on articles with cylindrical surfaces [1, 2006.01] • on articles or material of indefinite length, e.g. wires, hoses, tubes or yarns [1, 2006.01] 	21/02 21/04 21/05 21/06 21/08 21/10 21/12 21/14 22/00 23/00 23/02 23/04 23/06	 Devices for conveying sheets through printing apparatus or machines (through platen presses B41F 1/28) [1, 2006.01] Pins [1, 3, 5, 2006.01] Grippers [1, 3, 5, 2006.01] In-feed grippers [3, 5, 2006.01] Suction-operated grippers [1, 2006.01] Combinations of endless conveyors and grippers [1, 2006.01] Combinations of transfer drums and grippers [3, 2006.01] Adjusting leading edges, e.g. front stops [3, 2006.01] Adjusting lateral edges, e.g. side stops [3, 2006.01] Means preventing smudging of machine parts or printed articles (B41F 23/00 takes precedence) [6, 2006.01] Devices for treating the surfaces of sheets, webs or other articles in connection with printing [1, 2006.01] by dampening (in rotary lithographic machines B41F 7/24) [1, 2006.01] by heat drying, by cooling, by applying powders [1, 2006.01] Powdering devices, e.g. for preventing setoff [1, 2006.01] Print-finishing devices, e.g. for glossing

17/14 • • on articles of finite length **[1, 2006.01]**

8

27/00	Devices for attaching printing elements or formes to supports (attaching by chemical means	31/20 31/22	 Ink-removing or collecting devices [1, 2006.01] for inking from interior of cylinder [1, 2006.01]
	B41N 6/00) [1, 5, 2006.01]	31/24	 Absorbent pads [1, 2006.01]
27/02 27/04	 Magnetic devices [1, 2006.01] for attaching printing elements to flat type-beds [1, 2006.01] 	31/26	 Construction of inking rollers (inking-rollers serving also to apply ink repellent in rotary lithographic machines B41F 7/36) [1, 2006.01]
27/06	for attaching printing elements to forme	31/28	• Spray apparatus, e.g. containing brushes [1, 2006.01]
	cylinders [1, 2006.01]	31/30	 Arrangements for tripping, lifting, adjusting, or
27/08	 for attaching printing formes to flat type- beds [1, 2006.01] 		removing inking rollers; Supports, bearings, or forks therefor [1, 2006.01]
27/10	 for attaching non-deformable curved printing formes to forme cylinders [1, 2006.01] 	31/32	• Lifting or adjusting devices (for damping rollers B41F 7/40) [1, 2006.01]
27/12	• for attaching flexible printing formes [1, 2006.01]	31/34	• • Cam, eccentric, wedge, or like
27/14	• for attaching printing formes to intermediate	24 /26	devices [1, 2006.01]
	supports, e.g. adapter members [1, 2006.01]	31/36	• • • fluid-pressure operated [1, 2006.01]
30/00	Devices for attaching coverings or make-ready	31/38	• • • magnetically operated [1, 2006.01]
	devices; Guiding devices for coverings (make-ready devices B41N 6/00) [5, 2006.01]	33/00	Indicating, counting, warning, control or safety devices (arrangements of counting devices in platen
30/02	• attaching to impression cylinders [5, 2006.01]		presses B41F 1/00, in cylinder presses B41F 3/84; ink
30/04	• attaching to transfer cylinders [5, 2006.01]	22 / 02	supply or metering devices B41F 31/02) [1, 3, 2006.01]
30/06	 attaching of endless or like continuously-fed coverings [5, 2006.01] 	33/02	• Arrangements of indicating devices, e.g. counters [1, 2, 2006.01]
31/00	Inking arrangements or devices (inking units for platen presses B41F 1/40; inking units for cylinder presses B41F 3/81) [1, 2006.01]	33/04	 Tripping devices or stop-motions (cylinder-tripping devices of rotary presses or machines B41F 13/24; arrangements for tripping inking rollers B41F 31/30) [1, 2, 2006.01]
31/02	 Ducts, containers, supply or metering devices [1, 3, 2006.01] 	33/06	• • for starting or stopping operation of sheet or web feed [1, 2006.01]
31/03	• • Ink agitators [6, 2006.01]	33/08	 for starting or stopping operation of
31/04	with duct-blades or like metering		cylinders [1, 2006.01]
31/05	devices [1, 2006.01]Positioning devices therefor [6, 2006.01]	33/10	 for starting or stopping operation of damping or inking units [1, 2006.01]
31/06	 Troughs or like reservoirs with immersed, or partly immersed, rollers or cylinders [1, 2006.01] 	33/12	 for starting or stopping the machine as a whole [1, 2006.01]
31/07	• • • for rotogravure [6, 2006.01]	33/14	 Automatic control of tripping devices by feelers,
31/08	 with ink-ejecting means, e.g. pumps, nozzles [1, 2006.01] 		photoelectric devices, pneumatic devices, or other detectors [1, 2006.01]
31/10	 Applications of feed or duct rollers (messenger or moving transfer rollers B41F 31/14) [1, 2006.01] 	33/16	 Programming systems for automatic control of sequence of operations [1, 2006.01]
31/12	• • • adjustable for regulating supply [1, 2006.01]	33/18	Web break detection (B41F 33/04 takes
31/13	Means for driving fountain rollers [6, 2006.01]		precedence) [6, 2006.01]
31/14	Applications of messenger or other moving	35/00	Cleaning arrangements or devices [1, 2006.01]
31/15	transfer rollers [1, 2006.01] • Devices for moving vibrator-rollers [6, 2006.01]	35/02	• for forme cylinders [1, 2006.01]
31/16	• Continuous, e.g. endless, band apparatus [1, 2006.01]	35/04	• for inking rollers [1, 2006.01]
31/18	• for inking selected parts of printing	35/06	• for offset cylinders [1, 2006.01]
22, 10	formes [1, 2006.01]		

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) [1, 2006.01]	5/00	Apparatus for bordering or edging sheets or like articles, e.g. for producing black rims on mourning cards [1, 2006.01]
1/02 1/04	platen type [1, 2006.01]cylinder type [1, 2006.01]	7/00	Auxiliary perforating apparatus associated with printing devices (apparatus or machines for carrying-
3/00	Apparatus for printing lines [1, 2006.01]		out printing operations combined with operations other than perforating B41F 19/00) [1, 2006.01]

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) [3, 5]

- 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 does not cover:
 - 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.
 - 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

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	
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	19/00
Spacing. Drives.	23/00
Particular operationsOthers	21/00
Others	25/00, 29/00, 35/00

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, 2006.01]
- 1/02 with separate or detached types or dies [1, 2006.01]
- with types or dies carried upon levers or radial arms,
 e.g. manually operated (B41J 1/16 takes
 precedence) [1, 2006.01]
- 1/06 • on power-operated levers or arms **[1, 2006.01]**
- with types or dies carried on sliding bars or rods [1, 2006.01]
- 1/10 • on end surfaces thereof [1, 2006.01]
- 1/12 on side surfaces thereof, e.g. fixed thereto [1, 2006.01]
- 1/14 • the types or dies being movable relative to the bars or rods (mounted on flexible bars or rods B41J 1/16) [1, 2006.01]

- with types or dies arranged in stationary or sliding cases or frames or upon flexible strips, plates, bars, or rods [1, 2006.01]
- 1/18 with types or dies strung on wires or rods [1, 2006.01]
- with types or dies mounted on endless bands or the like [1, 2006.01]
- with types or dies mounted on carriers rotatable for selection [1, 2006.01]
- the plane of the type or die face being perpendicular to the axis of rotation (B41J 1/60 takes precedence) [1, 2006.01]
- 1/26 • Carriers moving for impression (B41J 1/27 takes precedence) [1, 3, 2006.01]
- 1/27 • Carriers moving during impression [3, 2006.01]
- 1/28 • Carriers stationary for impression, e.g. with the types or dies not moving relative to the carriers [1, 2006.01]

1/30	• • • with the types or dies moving relative to the	2/01 • • Ink jet [5, 2006.01]
	carriers or mounted on flexible	2/015 • • • characterised by the jet generation process
	carriers [1, 2006.01]	(B41J 2/215 takes precedence) [5, 2006.01]
1/32	 the plane of the type or die face being parallel to 	2/02 • • • generating a continuous ink jet [5, 2006.01]
	the axis of rotation, e.g. with type on the periphery	2/025 • • • • by vibration [5, 2006.01]
	of cylindrical carriers (B41J 1/60 takes	2/03 • • • • by pressure [5, 2006.01]
1/2/	precedence) [1, 2006.01]	2/035 • • • • by electric or magnetic field [5, 2006.01]
1/34	• • Carriers rotating during impression [1, 2006.01]	2/04 • • • generating single droplets or particles on
1/36	 Carriers sliding for impression, e.g. manually operated [1, 2006.01] 	demand [5, 2006.01]
1/38	• • • • power operated [1, 2006.01]	2/045 • • • • by pressure, e.g. electromechanical
1/40	• • • Carriers swinging for impression [1, 2006.01]	transducers [5, 2006.01]
1/42	• • • about an axis parallel to the axis of rotation	2/05 • • • • • produced by the application of
1/ 42	of the carrier [1, 2006.01]	heat [5, 2006.01]
1/44	• • • Carriers stationary for impression [1, 2006.01]	2/055 • • • • • • Devices for absorbing or preventing back-pressure [5, 2006.01]
1/46	• • • • Types or dies fixed on wheel, drum,	2/06 • • • • by electric or magnetic field [5, 2006.01]
	cylinder, or like carriers [1, 2006.01]	2/065 • • • • • involving the preliminary making of
1/48	• • • • with a plurality of carriers, one for each	ink protuberances [5, 2006.01]
	character space [1, 2006.01]	2/07 • • • characterised by jet control (B41J 2/205 takes
1/50	 • • • with one or more carriers travelling 	precedence) [5, 2006.01]
	across copy material in letter-space	2/075 • • • for many-valued deflection [5, 2006.01]
4./50	direction [1, 2006.01]	2/08 • • • • charge-control type [5, 2006.01]
1/52	• • • • with copy material moving in the letter- space direction, and carrier mounting	2/085 • • • • • Charge means, e.g.
	being fixed relative to the	electrodes [5, 2006.01]
	machine [1, 2006.01]	2/09 • • • • • Deflection means [5, 2006.01]
1/54	• • • • Types or dies movable on wheel, drum,	2/095 • • • • electric field-control type [5, 2006.01]
	cylinder, or like carriers [1, 2006.01]	2/10 • • • • magnetic field-control type [5, 2006.01]
1/56	 • • • Types or dies on shuttles or like loose 	2/105 • • • for binary-valued deflection [5, 2006.01]
	carriers [1, 2006.01]	2/11 • • • for ink spray [5, 2006.01]
1/58	• • • Types or dies upon arcuate bars [1, 2006.01]	2/115 • • • synchronising the droplet separation and
1/60	• with types or dies on spherical, truncated-spherical,	charging time [5, 2006.01]
	or like surfaces [1, 2006.01]	2/12 • • • testing or correcting charge or deflection [5, 2006.01]
2/00	Typewriters or selective printing mechanisms	2/125 • • • • Sensors, e.g. deflection sensors [5, 2006.01]
	characterised by the printing or marking process for	2/13 • • • • for inclination of printed pattern [5, 2006.01]
	which they are designed (mounting, arrangement, or	2/135 • • Nozzles [5, 2006.01]
	disposition of types or dies B41J 1/00; marking methods	2/14 • • • • Structure thereof [5, 2006.01]
	B41M 5/00; structure or manufacture of heads, e.g. inductive, for recording by magnetisation or	2/145 • • • Arrangement thereof [5, 2006.01]
	demagnetisation of a record carrier G11B 5/127; heads	2/15 • • • • for serial printing [5, 2006.01]
	for reproducing capacitive information	2/155 • • • • for line printing [5, 2006.01]
	G11B 9/07) [5, 2006.01]	2/16 • • • • Production of nozzles [5, 2006.01]
	Note(s) [E]	2/165 • • • • Prevention of nozzle clogging, e.g. cleaning,
	Note(s) [5]	capping or moistening for
	1. This group <u>covers</u> devices reproducing only a	nozzles [5, 2006.01]
	discrete number of tones, whereas group H04N 1/00 covers devices used for the	2/17 • • • characterised by ink handling [5, 2006.01]
	reproduction of documents or the like, which	2/175 • • • Ink supply systems [5, 2006.01]
	devices are capable of reproducing continuous	2/18 • • • • Ink recirculation systems [5, 2006.01]
	tone value scales.	2/185 • • • • Ink-collectors; Ink-catchers [5, 2006.01]
	2. In this group, the following expressions are used	2/19 • • • for removing air bubbles [5, 2006.01]
	with the meanings indicated:	2/195 • • • for monitoring ink quality [5, 2006.01]
	"ink jet" involves the projection of ink on to the printing metavial a grapher through a	2/20 • • • for preventing or detecting contamination of
	the printing material, e.g. paper, through a nozzle as a stream of droplets or particles of	compounds [5, 2006.01]
	colouring matter;	2/205 • • • for printing a discrete number of tones (B41J 2/21 takes precedence) [5, 2006.01]
	"continuous ink jet" means a jet of ink	2/21 • • • for multi-colour printing [5, 2006.01]
	transformed into a continuous stream of	2/21 • • by passing a medium, e.g. consisting of an air or
	droplets or particles of colouring matter	particle stream, through an ink mist [5, 2006.01]
	after having left the nozzle;	2/22 • characterised by selective application of impact or
	 "ink spray" means a spray of ink transported by a stream of charged particles or air on to 	pressure on a printing material or impression- transfer
	the printing material.	material [5, 2006.01]
2/005	characterised by bringing liquid or particles	2/225 • • ballistic, e.g. using solid balls or
	selectively into contact with a printing material	pellets [5, 2006.01]
	(printing by coloctive application of impact or	2/23 • • using print wires [5, 2006.01]

2/23

• • using print wires **[5, 2006.01]**

2/235 • • • Print head assemblies **[5, 2006.01]**

pressure on a printing or impression-transfer material

(printing by selective application of impact or

B41J 2/22) **[5, 2006.01]**

2/24 • • • serial printer type (B41J 2/25, B41J 2/265 take precedence) [5, 2006.01]	2/415 • • by passing charged particles through a hole or a slit [5, 2006.01]
2/245 • • • line printer type (B41J 2/25, B41J 2/265 take	2/42 • • for heating selectively [5, 2006.01]
precedence) [5, 2006.01]	2/425 • • for removing surface layer selectively from
2/25 • • • Print wires [5, 2006.01]	electro-sensitive material, e.g. matel coated
2/255 • • • • Arrangement of the print ends of the	paper [5, 2006.01]
wires [5, 2006.01]	2/43 • • for magnetic printing [5, 2006.01]
2/26 • • • • Connection of print wire and	2/435 • characterised by selective application of radiation to a
actuator [5, 2006.01] 2/265 • • • • Guides for print wires [5, 2006.01]	printing material or impression-transfer material (optical elements, systems, or apparatus G02B;
2/27 • • • Actuators for print wires [5, 2006.01]	modulation or deflection of light G02F;
2/275 • • • • of clapper type (B41J 2/28 takes	electrophotography G03G) [5, 2006.01]
precedence) [5, 2006.01]	2/44 • using single radiation source, e.g. lighting beams
2/28 • • • of spring charge type, i.e. with mechanical	or shutter arrangements (B41J 2/475 takes
power under electro-magnetic	precedence) [5, 2006.01]
control [5, 2006.01]	2/445 • • • using liquid crystals [5, 2006.01]
2/285 • • • of plunger type [5, 2006.01]	2/447 • using arrays of radiation sources (B41J 2/475 takes precedence) [6, 2006.01]
2/29 • • • • of moving-coil type [5, 2006.01]	2/45 • • using light-emitting diode arrays [5, 2006.01]
2/295 • • • • using piezo-electric elements [5, 2006.01]	2/455 • • • using laser arrays [5, 2006.01]
2/30 · · · Control circuits for actuators [5, 2006.01]	2/46 • • • characterised by using glass fibres [5, 2006.01]
2/305 • • • Ink supply apparatus (ink ribbons, ink-ribbon mechanisms B41J 31/00-	2/465 • using masks, e.g. light-switching masks
B41J 35/00) [5, 2006.01]	(photographic composing B41B) [5, 2006.01]
2/31 • using a print element with projections on its	2/47 • using the combination of scanning and modulation
surface impacted or impressed by	of light [5, 2006.01]
hammers [5, 2006.01]	2/475 • • for heating selectively [5, 2006.01]
2/315 • characterised by selective application of heat to a	2/48 • • • melting ink on a film or melting ink
heat sensitive printing or impression-transfer material	granules [5, 2006.01]
(B41J 2/385, B41J 2/435 take precedence) [5, 2006.01]	 characterised by the process of building-up characters applicable to two or more kinds of printing or
2/32 • • using thermal heads [5, 2006.01]	marking processes [5, 2006.01]
2/325 • • • by selective transfer of ink from ink carrier, e.g.	2/49 • • by writing [5, 2006.01]
from ink ribbon or sheet [5, 2006.01]	2/495 • • by selective printing from a rotating helical
2/33 • • • from ink roller [5, 2006.01]	member [5, 2006.01]
2/335 • • • Structure of thermal heads [5, 2006.01]	2/50 • by the selective combination of two or more non-
2/34 • • • comprising semiconductors [5, 2006.01]	identical printing elements [5, 2006.01]
2/345 • • characterised by the arrangement of resistors or	2/505 • from an assembly of identical printing elements [5, 2006.01]
conductors [5, 2006.01]	2/51 • • • serial printer type [5, 2006.01]
2/35 • • • providing current or voltage to the thermal head [5, 2006.01]	2/515 • • • line printer type [5, 2006.01]
2/355 • • • Control circuits for heating-element	2/52 • Arrangement for printing a discrete number of tones,
selection [5, 2006.01]	not covered by group B41J 2/205, e.g. applicable to
2/36 • • • • Print density control [5, 2006.01]	two or more kinds of printing or marking process
2/365 • • • • by compensation for variation in	(B41J 2/525 takes precedence; for photomechanical production G03F 5/00) [5, 2006.01]
temperature [5, 2006.01]	2/525 • Arrangement for multi-colour printing, not covered
2/37 • • • • • by compensation for variation in current [5, 2006.01]	by group B41J 2/21, e.g. applicable to two or more
	kinds of printing or marking process (for
2/375 • • • Protection arrangements against overheating [5, 2006.01]	photomechanical production G03F 3/00) [5, 2006.01]
2/38 • • Preheating, i.e. heating to a temperature	3/00 Typewriters or selective printing or marking
insufficient to cause printing [5, 2006.01]	mechanisms characterised by the purpose for which
2/385 • characterised by selective supply of electric current	they are constructed (cryptographic typewriters
or selective application of magnetism to a printing or	G09C 3/00) [1, 5, 2006.01]
impression-transfer material (B41J 2/005 takes	• for special character, e.g. for Chinese characters or
precedence; electrography, magnetography G03G) [5, 2006.01]	barcodes [5, 2006.01]
2/39 • using multi-stylus heads [5, 2006.01]	 for perforating or stencil cutting using special types or dies [1, 2006.01]
2/395 • • • Structure of multi-stylus heads [5, 2006.01]	3/26 • for stenographic writing [1, 2006.01]
2/40 • • • providing current or voltage to the multi-stylus	3/28 • for printing downwardly on flat surfaces, e.g. of
head [5, 2006.01]	books, drawings, boxes [1, 2006.01]
2/405 • • • Selection of the stylus or auxiliary electrode	3/30 • for printing with large type, e.g. on bulletins,
to be supplied (electronic switching circuits	tickets [1, 2006.01]
in general H03K 17/00) [5, 2006.01]	 for printing in Braille or with keyboards specially
2/41 • • for electrostatic printing (B41J 2/39 takes precedence) [5, 2006.01]	adapted for use by blind or disabled
precedence) [0, 2000.01]	persons [1, 2006.01] 3/34 • for printing musical scores [1, 2006.01]
	5/54 · 101 printing musical scores [1, 2000.01]

3/36	• for portability [1, 2006.01]
3/37	• • Foldable typewriters [5, 2006.01]
3/38	 for embossing, e.g. for making matrices for stereotypes [1, 2006.01]
3/39	 hand-held (manually-controlled or manually- operable label dispensers having printing equipment B65C 11/02) [5, 2006.01]
3/407	• for marking on special material (printing on special surfaces B41F 17/00) [5, 2006.01]
3/413	• • for metal [5, 2006.01]
3/42	 Two or more complete typewriters coupled for simultaneous operation [1, 2006.01]
3/44	 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) [1, 2006.01]
3/46	 Printing mechanisms combined with apparatus providing a visual indication [1, 2006.01]
3/50	 Mechanisms producing characters by printing and also producing a record by other means (punching mechanisms G06K) [1, 5, 2006.01]
3/51	• • • the printed and recorded information being identical; using type elements with codegenerating means (G06K 1/12 takes precedence) [1, 5, 2006.01]
3/54	• with two or more sets of type or printing elements (B41J 3/60 takes precedence) [1, 5, 2006.01]
3/60	for printing on both faces of the printing

\mathbf{C}

3/62

5/31

material [5, 2006.01]

precedence) [5, 2006.01]

for printing on two or more separate sheets or strips

of printing material (B41J 3/54 takes

Common details or accessories			
5/00	Devices or arrangements for controlling character selection (methods or arrangements for sensing record carriers G06K 7/00) [1, 2006.01]		
5/02	 Character or syllable selected by setting an index [1, 2006.01] 		
5/04	 Single-character selection [1, 2006.01] 		
5/06	 Multiple-character selection [1, 2006.01] 		
5/08	• Character or syllable selected by means of keys or keyboards of the typewriter type [1, 2006.01]		
5/10	 Arrangements of keyboards [1, 2006.01] 		
5/12	 Construction of key buttons [1, 2006.01] 		
5/14	• • Construction of key levers [1, 2006.01]		
5/16	• • Mounting or connecting key buttons on or to key levers [1, 2006.01]		
5/18	• • Locks [1, 2006.01]		
5/20	• • • for subsidiary keys, e.g. for shift keys [1, 2006.01]		
5/22	• • • Interlocks between keys, e.g. without detent arrangements [1, 2006.01]		
5/24	• • • • with detent arrangements [1, 2006.01]		
5/26	• • Regulating touch, key dip or stroke, or the like [1, 2006.01]		
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 [1, 2006.01] 		
5/30	• Character or syllable selection controlled by recorded information [1, 2006.01]		

characterised by form of recorded

information [1, 2006.01]

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by printed, embossed, or photographic records,
5/32
                 e.g. cards, sheets [1, 2006.01]
5/34
                 • by strips or tapes [1, 2006.01]
                 by punched records, e.g. cards,
5/36
                 sheets [1, 2006.01]
5/38
                 • by strips or tapes [1, 2006.01]
5/40
                 by magnetic or electrostatic records, e.g. cards,
                 sheets [1, 2006.01]
5/42
                   by strips or tapes [1, 2006.01]
              characterised by the kind of storage of recorded
5/44
              information [1, 2006.01]
5/46
                 the storage being on internal
                 storages [1, 2006.01]
5/48
                 the storage being on external
                 storages [1, 2006.01]
5/50
                    on a single storage [1, 2006.01]
5/51
                    on more than one separate storage, e.g. on
                    additional correction strips or
                    tapes [3, 2006.01]
5/52
              characterised by the provision of additional
              devices for producing a punched or like record,
              e.g. simultaneously [1, 2006.01]
7/00
        Type-selecting or type-actuating mechanisms (index
        setting B41J 5/02) [1, 2006.01]
7/02
          Type-lever actuating mechanisms [1, 2006.01]
7/04
              Levers mounted on fixed pivots [1, 2006.01]
7/06
                 and connected to transmission members, e.g.
                 toothed gearing [1, 2006.01]
7/08
                    with pin-and-slot or like loose connections;
                    Cam-slot members [1, 2006.01]
                    Chain, belt, flexible-cable, or like
7/10
                    members [1, 2006.01]
7/12
                 U-shaped type-lever on two pivots [1, 2006.01]
7/14
                 Single key-and-type lever [1, 2006.01]
7/16
                 Type-head pivoted to, or rotating on,
                 lever [1, 2006.01]
7/18
              Levers having moving or variable fulcra to alter
              the mechanical advantage during the
              stroke [1, 2006.01]
7/20
              Levers having moving pivots fixed relative to the
              lever; Type-bars each pivoted on two
              links [1, 2006.01]
              Type-baskets; Bearings or hangers for type-
7/22
              levers [1, 2006.01]
7/24
              Construction of type-levers (U-shaped levers
              B41J 7/12) [1, 2006.01]
7/26
              Special means, e.g. repulsers, for ensuring return
              of type-levers [1, 2006.01]
7/28
              Key-lever and type-member returned
              independently to rest position [1, 2006.01]
7/30
              Preventing rebound or clash of levers or type-
              members [1, 2006.01]
           Type-face selected by operation of sliding
7/32
           members [1, 2006.01]
           Type-face selected by operation of rotary
7/34
           members [1, 2006.01]
           Selecting arrangements applied to type-carriers
7/36
           rotating during impression [1, 2006.01]
7/38
              Type movable on carrier for selection [1, 2006.01]
              Type movable on carrier for
7/40
              impression [1, 2006.01]
              Timed impression, e.g. without
7/42
              impact [1, 2006.01]
7/44
                 with impact [1, 2006.01]
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Rolling contact during impression [1, 2006.01]

IPC (2021.01), Section B 13

7/46

7/48	 Type-carrier arrested in selected position by electromagnetic means [1, 2006.01] 	9/50	• • for compensating for the variations of printer drive conditions, e.g. for compensating for the variation
7/50	Type-face selected by combinations of two	0.450	of temperature or current supply [5, 2006.01]
7/52	movements of type-carrier [1, 2006.01] • by combined rotary and sliding	9/52	 for checking the operation of print hammers [5, 2006.01]
	movement [1, 2006.01]	9/54	• • for checking the breakage of print
7/54	 Selecting arrangements including combination, permutation, summation, or aggregation 		hammers [5, 2006.01]
	means [1, 2006.01]	11/00	Devices or arrangements for supporting or handling copy material in sheet or web form (specially adapted
7/56	 Summation devices for mechanical movements [1, 2006.01] 		for supporting or handling copy material in short lengths
7/58	• • • Wedges [1, 2006.01]		B41J 13/00, in continuous form B41J 15/00; holders for
7/60	• • Levers [1, 2006.01]	11/02	text to be copied B41J 29/00) [1, 2006.01] • Platens [1, 2006.01]
7/62	• • • Gearing [1, 2006.01]	11/02	• Roller platens [1, 2006.01]
7/64	• • • Pulley-and-strand mechanism [1, 2006.01]	11/053	• with sound-deadening devices (structure of
7/66	• Movable members, e.g. pins, displaceable	11, 000	surface B41J 11/057) [3, 2006.01]
7/68	according to a code [1, 2006.01]with means for selectively closing an electric	11/057	• • • Structure of the surface [3, 2006.01]
7700	circuit for type presentation [1, 2006.01]	11/06	 Flat page-size platens [1, 2006.01]
7/90	• Syllable, line, or like type selection [1, 2006.01]	11/08	• • Bar or like line-size platens [1, 2006.01]
7/92	Impact adjustment; Means to give uniformity of	11/10	• • Anvil or like character-size platens [1, 2006.01]
	impression (B41J 9/46, B41J 9/48 take	11/13	 Backings or blankets (for roller platens B41J 11/057) [3, 2006.01]
7/94	precedence) [1, 5, 2006.01]Character-by-character adjustment [1, 2006.01]	11/14	Platen-shift mechanisms; Driving gear
7/9 4 7/96	Means for checking correctness of		therefor [1, 2006.01]
7750	setting [1, 2006.01]	11/16	 with balancing means [1, 2006.01]
		11/18	• Platen-impression arrangements [1, 2006.01]
9/00	Hammer-impression mechanisms [1, 2006.01]	11/20	Platen adjustments for varying the strength of
9/02	Hammers; Arrangements thereof [1, 2006.01]		impression, for a varying number of papers, for wear or for alignment [1, 2006.01]
9/04	 • of single hammers, e.g. travelling along printing line [1, 2006.01] 	11/22	• Paper-carriage guides or races [1, 2006.01]
9/06	• • of stationary hammers, e.g. engaging a single	11/24	Detents, brakes, or couplings for feed rollers or
3, 33	type-carrier [1, 2006.01]		platens [1, 2006.01]
9/08	• • • engaging more than one type-	11/26	• Pin feeds [1, 2006.01]
	carrier [1, 2006.01]	11/27	• on or within the platen-rollers [1, 2006.01]
9/10	 of more than one hammer, e.g. one for each character position [1, 2006.01] 	11/28 11/30	• Pin wheels [1, 2006.01]• Pin traction elements other than wheels, e.g. pins
9/12	• • each operating in more than one character		on endless bands [1, 2006.01]
0./405	position [1, 2006.01]	11/32	Adjustment of pin wheels or traction elements,
9/127 9/133	 Mounting of hammers [3, 2006.01] Construction of hammer body or tip [3, 2006.01]	11/34	e.g. laterally [1, 2006.01]Guides coacting with pin feeds [1, 2006.01]
9/133	Means for selecting or suppressing individual	11/34	Blanking or long feeds; Feeding to a particular line,
	hammers [1, 2006.01]		e.g. by rotation of platen or feed roller [1, 2006.01]
9/16	• Means for cocking or resetting hammers [1, 2006.01]	11/38	• • Manually-operated feeding devices [1, 2006.01]
9/18	• • Cams [1, 2006.01]	11/40	 specially adapted for printing musical scores [1, 2006.01]
9/20 9/22	• Springs [1, 2006.01]• Fluid-pressure means [1, 2006.01]	11/42	• Controlling [1, 2006.01]
9/24	Fluid-pressure means [1, 2006.01]Electromagnetic means [1, 2006.01]	11/44	• by devices, e.g. programme tape or contact
9/26	Means for operating hammers to effect	11,	wheel, moved in correspondence with
57 2 0	impression [1, 2006.01]		movement of paper-feeding devices, e.g. platen
9/28	• • Cams [1, 2006.01]	44115	rotation [1, 2006.01]
9/30	• • Springs [1, 2006.01]	11/46	 • by marks or formations on the paper being fed [1, 2006.01]
9/32	• • arranged to be clutched to snatch roll [1, 2006.01]	11/48	Apparatus for condensed record, tally strip, or like
9/34	• • Fluid-pressure means [1, 2006.01]	11/70	work using two or more papers, or sets of
9/36	 in which mechanical power is applied under electromagnetic control [1, 2006.01] 		papers [1, 2006.01]
9/38	• • Electromagnetic means [1, 2006.01]	11/50	• in which two or more papers or sets are separately
9/40	 including an electro-adhesive clutch [1, 2006.01] 		fed in the same direction towards the printing position [1, 2006.01]
9/42	• with anti-rebound arrangements [1, 2006.01]	11/51	• • with different feed rates [3, 2006.01]
9/44	Control for hammer-impression	11/52	• in which one paper or set is moved transversely
	mechanisms [5, 2006.01]		relative to another [1, 2006.01]
9/46	 for deciding or adjusting hammer-firing time [5, 2006.01] 	11/53	 Devices for holding in place one paper or set during replacement of one or more of the
9/48	 for deciding or adjusting hammer-drive energy [5, 2006.01] 		auxiliary papers or sets [1, 2006.01]

• • for deciding or adjusting hammer-drive energy [5, 2006.01]

11/54	• in which one paper or set is fed towards printing	15/12	• • • and coupled to the carriage [1, 2006.01]
	position from the front of the apparatus [1, 2006.01]	15/14 15/16	• and detached from the carriage [1, 2006.01]• Means for tensioning or winding the
11/55	• • • with means for adjusting a paper or set [3, 2006.01]		web [1, 2006.01]
11/56	• specially constructed to facilitate storage or transport	15/18 15/20	Multiple-web feeding apparatus [1, 2006.01]for webs superimposed during printing (machines
11/58	of typewriter [1, 2006.01] • Supply holders for sheets or fan-folded webs, e.g.		for separating superposed webs B65H 41/00) [1, 2006.01]
11/60	shelves, tables, scrolls, pile holders [1, 2006.01]	15/22	 for feeding webs in separate paths during
11/60	• Erasing or correcting tables [1, 2006.01]	45 (0.4	printing [1, 2006.01]
11/62	• Shields or masks [1, 2006.01]	15/24	• with means for registering the webs with each
11/64	• Applications of scales or indicators [1, 2006.01]		other [1, 2006.01]
11/66 11/68	Applications of cutting devices [1, 2006.01]cutting parallel to the direction of paper	17/00	Mechanisms for manipulating page-width
11/70	feed [1, 2006.01]cutting perpendicular to the direction of paper		impression-transfer material, e.g. carbon paper (in manifolding devices B41L; sheet material for
11//0	feed [1, 2006.01]	17/02	duplicating or marking B41M 5/00) [1, 2006.01]Feeding mechanisms [1, 2006.01]
13/00	Devices or arrangements specially adapted for	17/04	 Feed dependent on the record-paper feed, e.g. both
13/00	supporting or handling copy material in short		moved at the same time [1, 2006.01]
10 (00	lengths, e.g. sheets [1, 2006.01]	17/06	• • "Creep" feed, i.e. impression-transfer material
13/02 13/03	 Rollers (roller platens B41J 11/04) [1, 2006.01] driven, e.g. feed rollers separate from 	17/07	fed slower than the record paper [1, 2006.01] • • • electromagnetically controlled [1, 2006.01]
10, 00	platen [1, 2006.01]	17/08	Feed independent of the record-paper
13/036	• • co-operating with a roller platen [3, 2006.01]		feed [1, 2006.01]
13/042	Front and rear rollers or sets of front or rear	17/10	• • • electromagnetically controlled [1, 2006.01]
	rollers each mounted on a separate carrier [3, 2006.01]	17/12	 • Special adaptations for ensuring maximum life [1, 2006.01]
13/048	• • • Front and rear rollers both mounted on a common carrier [3, 2006.01]	17/14	 Automatic arrangements for reversing the feed direction [1, 2006.01]
13/054	• • • on the paper apron concentric with the roller platen [3, 2006.01]	17/16	 Holders in the machine for sheets of impression- transfer material [1, 2006.01]
13/076	 Construction of rollers; Bearings 	17/18	• • pivotable to and from the platen [1, 2006.01]
	therefor [1, 2006.01]	17/20	• • slidable to and from the platen [1, 2006.01]
13/08	• Bands or like feeding devices [1, 2006.01]	17/22	• Supply arrangements for webs or impression-transfer
13/10	 Sheet holders, retainers, or stationary guides [1, 2006.01] 	17/24	material [1, 2006.01]Webs supplied from reels or spools attached to the
13/12	 specially adapted for cards, envelopes, or the like [1, 2006.01] 	17/26	 machine (reels per se B65H 75/02) [1, 2006.01] Webs supplied from trays or like supports attached
13/14	• • Aprons or guides [1, 2006.01]		to the machines [1, 2006.01]
13/16	 • movable for insertion or release of sheets [1, 2006.01] 	17/28	 Arrangements of guides for the impression-transfer material [1, 2006.01]
13/18	• • • concentric with roller platen [1, 2006.01]	17/30	 Constructions of guides for the impression-transfer
13/20	• • Bails [1, 2006.01]		material [1, 2006.01]
13/22 13/24	Clamps or grippers [1, 2006.01]Strips for supporting or holding	17/32	 Detachable carriers or holders for impression-transfer material mechanism [1, 2006.01]
	papers [1, 2006.01]	17/34	• Backings for impression-transfer material, e.g. sheets
13/26	• Registering devices [1, 2006.01]		for reducing friction, shields for preventing imprint [1, 2006.01]
13/28	• Front lays, stops, or gauges [1, 2006.01]	17/36	Alarms, indicators, or feed-disabling devices
13/30 13/32	• Side lays or gauges [1, 2006.01]• Means for positioning sheets in two directions	17730	responsive to material breakage or exhaustion [1, 2006.01]
	under one control, e.g. for format control or orthogonal sheet positioning [1, 2006.01]	17/38	 for dealing with the impression-transfer material after use [1, 2006.01]
15/00	Devices or arrangements specially adapted for	17/40	 for retracting sheets for re-use [1, 2006.01]
15/00	supporting or handling copy material in continuous form, e.g. webs [1, 2006.01]	17/42	• • for webs [1, 2006.01]
15/02	 Web rolls or spindles; Attaching webs to cores or spindles [1, 2006.01] 	19/00	Character- or line-spacing mechanisms (key actions B41J 25/02) [1, 2006.01]
15/04	• Supporting, feeding, or guiding devices; Mountings	19/02	 with retarding devices, e.g. brakes [1, 2006.01]
	for web rolls or spindles [1, 2006.01]	19/04	Sound-deadening or shock-absorbing devices or The short of t
15/06	 characterised by being applied to printers having stationary carriages [1, 2006.01] 		measures therein (B41J 19/38 takes precedence) [1, 2006.01]
15/08	• • characterised by being applied to printers having	19/06	• Resilient mounting of mechanism [1, 2006.01]
15/10	transversely-moving carriages [1, 2006.01] • • and mounted on the carriage [1, 2006.01]	19/08 19/10	 Buffers, springs, or like carriage stops [1, 2006.01] Dash-pots [1, 2006.01]
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16

19/12	 Gearing made of special material or specially 	19/88	• • • • moving a type carriage [1, 2006.01]
	constructed to reduce sound or shock [1, 2006.01]	19/90	• • • moving a paper or like web or strip, e.g. over
19/14	 with means for effecting line or character spacing in 		a stationary support, automatically in
	either direction [1, 2006.01]		response to movements other than carriage
19/16	Special spacing mechanisms for circular, spiral, or	10/02	return [1, 2006.01]
10/10	diagonal-printing apparatus [1, 2006.01]	19/92	 • Electromagnetically-operated mechanisms [1, 2006.01]
19/18	 Character-spacing or back-spacing mechanisms; Carriage-return or release devices 	19/94	• • • automatically operated in response to carriage
	therefor [1, 2006.01]	13/34	return [1, 2006.01]
19/20	 Positive-feed character-spacing mechanisms 	19/96	 Variable-spacing arrangements [1, 2006.01]
	(controlled by escapements	19/98	• • Escapement-feed mechanisms [1, 2006.01]
	B41J 19/52) [1, 2006.01]		
19/22	 acting by friction or gripping 	21/00	Column, tabular, or like printing arrangements;
	effect [1, 2006.01]		Means for centralising short lines (carriage-release
19/24	• • • Pawl and ratchet [1, 2006.01]		mechanisms B41J 19/66; key actions B41J 25/18) [1, 2006.01]
19/26	• • • moving a paper or like carriage [1, 2006.01]	21/02	• Stops or stop-racks [1, 2006.01]
19/28	 • • • moving a paper or like web or strip, e.g. over a stationary support [1, 2006.01] 	21/04	 Mechanisms for setting or restoring tabulation
19/30	• • • Electromagnetically-operated		stops [1, 2006.01]
13/30	mechanisms [1, 2006.01]	21/06	 with means for preventing rebound from
19/32	Differential or variable-spacing		stops [1, 2006.01]
	arrangements [1, 2006.01]	21/08	 Mechanisms for initiating, effecting, skipping, or
19/34	 Escapement-feed character-spacing 		stopping tabulation movement; Means for
	mechanisms [1, 2006.01]	21/10	centralising short lines [1, 2006.01]with central, counter, or equivalent stop projected
19/36	• • Driving mechanisms, e.g. springs stressed	21/10	into path of tabulation stops [1, 2006.01]
19/38	during carriage return [1, 2006.01] • • • • adapted for silent return [1, 2006.01]	21/12	 characterised by arrangements of electrical
19/40	Escapements having a single pawl or like		contacts [1, 2006.01]
13/40	detent [1, 2006.01]	21/14	 characterised by denominational
19/42	• • Escapements having two pawls or like		arrangements [1, 2006.01]
	detents [1, 2006.01]	21/16	controlled by the sensing of marks or formations on the paper being typed, an undershoot, or the
19/44	 coacting with two toothed members, e.g. 		the paper being typed, an undersheet, or the platen [1, 2006.01]
	racks or wheels [1, 2006.01]	21/17	• controlled by stored information [5, 2006.01]
19/46	• • • and mounted on a single rocker [1, 2006.01]	21/18	 characterised by applications of scales or
19/48	• • • and mounted on a single slider [1, 2006.01]		indicators [1, 2006.01]
19/50	 • Electromagnetically-controlled escapements [1, 2006.01] 	22/00	D 1: 6 .: (D410/00
19/52	Escapements controlling positive-feed	23/00	Power drives for actions or mechanisms (B41J 9/00 take precedence) [1, 2006.01]
	mechanism [1, 2006.01]	23/02	 Mechanical power drives [1, 2006.01]
19/54	• • • Construction of universal bars [1, 2006.01]	23/04	 with driven mechanism arranged to be clutched to
19/56	 • Escapements controlling web or strip 		continuously-operating power source [1, 2006.01]
	feed [1, 2006.01]		
19/58		23/06	• • • by snatch rolls [1, 2006.01]
	• • • Differential or variable-spacing	23/06 23/08	• • by snatch rolls [1, 2006.01]• • by one-revolution or part-revolution
10/60	arrangements [1, 2006.01]	23/08	 • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01]
19/60	arrangements [1, 2006.01] • Auxiliary feed or adjustment devices [1, 2006.01]	23/08 23/10	 by snatch rolls [1, 2006.01] by one-revolution or part-revolution clutches [1, 2006.01] and arrested in selected position [1, 2006.01]
19/62	arrangements [1, 2006.01] • Auxiliary feed or adjustment devices [1, 2006.01] • • for back-spacing [1, 2006.01]	23/08	 • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating
19/62 19/64	arrangements [1, 2006.01] • Auxiliary feed or adjustment devices [1, 2006.01] • • for back-spacing [1, 2006.01] • • for justifying [1, 2006.01]	23/08 23/10 23/12	 • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01]
19/62 19/64 19/66	arrangements [1, 2006.01] • Auxiliary feed or adjustment devices [1, 2006.01] • for back-spacing [1, 2006.01] • for justifying [1, 2006.01] • Carriage-release mechanisms [1, 2006.01]	23/08 23/10	 • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or
19/62 19/64	arrangements [1, 2006.01] • Auxiliary feed or adjustment devices [1, 2006.01] • • for back-spacing [1, 2006.01] • • for justifying [1, 2006.01] • Carriage-release mechanisms [1, 2006.01]	23/08 23/10 23/12	 • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01]
19/62 19/64 19/66	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] for justifying [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually	23/08 23/10 23/12 23/14	 • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01]
19/62 19/64 19/66 19/68	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] for justifying [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] with power stored during character	23/08 23/10 23/12 23/14 23/16 23/18	 • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01]
19/62 19/64 19/66 19/68 19/70 19/72	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] for justifying [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] with power stored during character spacing [1, 2006.01]	23/08 23/10 23/12 23/14 23/16 23/18 23/20	 • • by snatch rolls [1, 2006.01] • • by one-revolution or part-revolution clutches [1, 2006.01] • • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01]
19/62 19/64 19/66 19/68	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] for justifying [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01]
19/62 19/64 19/66 19/68 19/70 19/72	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] for justifying [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing or back-spacing elements in engagement during	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01] • for impression mechanisms [1, 2006.01]
19/62 19/64 19/66 19/68 19/70 19/72	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] for justifying [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing or back-spacing elements in engagement during case-shift or like movement [1, 2006.01]	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01] • for impression mechanisms [1, 2006.01] • for platen or carriage movements, e.g. for line
19/62 19/64 19/66 19/68 19/70 19/72	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] for justifying [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing or back-spacing elements in engagement during	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01] • for impression mechanisms [1, 2006.01] • for platen or carriage movements, e.g. for line spacing, letter spacing, or carriage
19/62 19/64 19/66 19/68 19/70 19/72 19/74 19/76	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing or back-spacing elements in engagement during case-shift or like movement [1, 2006.01] Line-spacing mechanisms (special line-feeds, e.g. long feeds, B41J 11/36) [1, 2006.01]	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01] • for impression mechanisms [1, 2006.01] • for platen or carriage movements, e.g. for line
19/62 19/64 19/66 19/68 19/70 19/72 19/74 19/76 19/78 19/80	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing or back-spacing elements in engagement during case-shift or like movement [1, 2006.01] Line-spacing mechanisms (special line-feeds, e.g. long feeds, B41J 11/36) [1, 2006.01] Positive-feed mechanisms [1, 2006.01]	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01] • for impression mechanisms [1, 2006.01] • for platen or carriage movements, e.g. for line spacing, letter spacing, or carriage return [1, 2006.01]
19/62 19/64 19/66 19/68 19/70 19/72 19/74 19/76 19/78 19/80 19/82	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] vietation with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing or back-spacing elements in engagement during case-shift or like movement [1, 2006.01] Line-spacing mechanisms (special line-feeds, e.g. long feeds, B41J 11/36) [1, 2006.01] Positive-feed mechanisms [1, 2006.01] Pawl-and-ratchet mechanisms [1, 2006.01]	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01] • for impression mechanisms [1, 2006.01] • for platen or carriage movements, e.g. for line spacing, letter spacing, or carriage return [1, 2006.01] • for type-carriage movements [1, 2006.01] • for case shift [1, 2006.01] • Electromagnetic power drives, e.g. applied to key
19/62 19/64 19/66 19/68 19/70 19/72 19/74 19/76 19/78 19/80	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] vietable with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing or back-spacing elements in engagement during case-shift or like movement [1, 2006.01] Line-spacing mechanisms (special line-feeds, e.g. long feeds, B41J 11/36) [1, 2006.01] Positive-feed mechanisms [1, 2006.01] Pawl-and-ratchet mechanisms [1, 2006.01] moving a paper or like carriage [1, 2006.01]	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26 23/28 23/30 23/32	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01] • for impression mechanisms [1, 2006.01] • for platen or carriage movements, e.g. for line spacing, letter spacing, or carriage return [1, 2006.01] • for type-carriage movements [1, 2006.01] • for case shift [1, 2006.01] • Electromagnetic power drives, e.g. applied to key levers [1, 2006.01]
19/62 19/64 19/66 19/68 19/70 19/72 19/74 19/76 19/78 19/80 19/82 19/84	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] very with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing or back-spacing elements in engagement during case-shift or like movement [1, 2006.01] Line-spacing mechanisms (special line-feeds, e.g. long feeds, B41J 11/36) [1, 2006.01] Positive-feed mechanisms [1, 2006.01] Pawl-and-ratchet mechanisms [1, 2006.01] Pawl-and-ratchet mechanisms [1, 2006.01] in the form of a roller rotated for line spacing [1, 2006.01]	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26 23/28 23/30	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01] • for impression mechanisms [1, 2006.01] • for platen or carriage movements, e.g. for line spacing, letter spacing, or carriage return [1, 2006.01] • for type-carriage movements [1, 2006.01] • for case shift [1, 2006.01] • Electromagnetic power drives, e.g. applied to key levers [1, 2006.01] • applied to elements other than key
19/62 19/64 19/66 19/68 19/70 19/72 19/74 19/76 19/78 19/80 19/82	arrangements [1, 2006.01] Auxiliary feed or adjustment devices [1, 2006.01] for back-spacing [1, 2006.01] Carriage-release mechanisms [1, 2006.01] Carriage-return mechanisms, e.g. manually actuated [1, 2006.01] power driven [1, 2006.01] vietable with power stored during character spacing [1, 2006.01] with special means to maintain character-spacing or back-spacing elements in engagement during case-shift or like movement [1, 2006.01] Line-spacing mechanisms (special line-feeds, e.g. long feeds, B41J 11/36) [1, 2006.01] Positive-feed mechanisms [1, 2006.01] Pawl-and-ratchet mechanisms [1, 2006.01] moving a paper or like carriage [1, 2006.01]	23/08 23/10 23/12 23/14 23/16 23/18 23/20 23/22 23/24 23/26 23/28 23/30 23/32	 • • by snatch rolls [1, 2006.01] • by one-revolution or part-revolution clutches [1, 2006.01] • and arrested in selected position [1, 2006.01] • Mechanism driven by cams engaging rotating roller [1, 2006.01] • Mechanism driven through an oscillating or reciprocating member [1, 2006.01] • Mechanism driven by a spring tensioned by power means [1, 2006.01] • Continuously-cycling drives [1, 2006.01] • Fluid-pressure power drives [1, 2006.01] • for key or like type selection [1, 2006.01] • for impression mechanisms [1, 2006.01] • for platen or carriage movements, e.g. for line spacing, letter spacing, or carriage return [1, 2006.01] • for type-carriage movements [1, 2006.01] • for case shift [1, 2006.01] • Electromagnetic power drives, e.g. applied to key levers [1, 2006.01]

23/38	 and acting on aligning or case-shift mechanisms [1, 2006.01] 	29/06	• Special supports, platforms, or trolleys for supporting machines on tables [1, 2006.01]
25/00	Actions or mechanisms not otherwise provided	29/08	Sound-deadening or shock-absorbing stands, supports, cases, or pads separate from
	for [1, 2006.01]		machines [1, 2006.01]
25/02	• Key actions for specified purposes [1, 2006.01]	29/10	 Sound-deadening devices embodied in machines
25/04	• • Back-spacing [1, 2006.01]		(B41J 19/04 takes precedence) [1, 2006.01]
25/06	• • Carriage return [1, 2006.01]	29/12	• Guards, shields or dust excluders [1, 5, 2006.01]
25/08	• • Case shift [1, 2006.01]	29/13	• • Cases or covers [5, 2006.01]
25/10	 Ink-ribbon adjustment [1, 2006.01] 	29/14	 Attachments operated by the leg, e.g. the foot or
25/12	• • Character spacing [1, 2006.01]		knee [1, 2006.01]
25/14	• • Line spacing [1, 2006.01]	29/15	• Script supports connected to the typewriter or printer
25/16	 Line spacing and carriage return by a single key [1, 2006.01] 		(tables, desks, office furniture, in general A47B) [5, 2006.01]
25/18	• • Tabulating [1, 2006.01]	29/16	 Auxiliary receptacles for articles, e.g. erasers,
25/20	 Auxiliary type mechanisms for printing 		pencils [1, 2006.01]
	distinguishing marks, e.g. for accenting, using dead	29/17	• Cleaning arrangements [5, 2006.01]
	or half-dead key arrangements, for printing marks in	29/18	Mechanisms for rendering the print visible to the
	telegraph printers to indicate that machine is		operator (ink-ribbon shifts
25/22	receiving [1, 2006.01]	20/10	B41J 35/20) [1, 5, 2006.01]
25/22	 for aligning characters for impression (in machines using index setting B41J 5/02) [1, 2006.01] 	29/19	 with reflectors or illuminating devices [5, 2006.01]
25/24	Case-shift mechanisms (B41J 11/14 takes	29/20	• Arrangements of counting devices [1, 2006.01]
	precedence; key actions B41J 25/08); Fount-change	29/22	• • Line counters [1, 2006.01]
25/204	arrangements [1, 2006.01]	29/24	• • Word counters [1, 2006.01]
25/304	 Bodily-movable mechanisms for print heads or carriages movable towards or from paper surface 	29/26	Devices, non-fluid media or methods for cancelling,
	(type carriers sliding for impression B41J 1/36; type		correcting errors, underscoring or
	carriers swinging for impression	20/20	ruling [1, 4, 2006.01]
	B41J 1/40) [5, 2006.01]	29/28	 Writing or like instruments in holders or guides [1, 2006.01]
25/308	with print gap adjustment	29/30	• • Wheels [1, 2006.01]
	mechanisms [5, 2006.01]	29/32	• • Type-members [1, 2006.01]
25/312	• • with print pressure adjustment mechanisms, e.g.	29/34	• • repeatedly actuated [1, 2006.01]
	pressure-on-the-paper mechanisms [5, 2006.01]	29/36	 for cancelling or correcting errors by overprinting
25/316	 with tilting motion mechanisms relative to paper surface [5, 2006.01] 		(B41J 31/00 takes precedence) [1, 4, 2006.01]
25/32	 Impression mechanisms in which a roller co-operates with stationary type-faces [1, 2006.01] 	29/367	• • • sheet media carrying a pigmented transferable correction layer [4, 2006.01]
25/34	Bodily-changeable print heads or carriages	29/373	 • sheet media bearing an adhesive layer effective to lift off wrongly typed characters [4, 2006.01]
	(B41J 1/20, B41J 1/22, B41J 1/60 take	29/377	• Cooling or ventilating arrangements [5, 2006.01]
	precedence) [5, 2006.01]	29/38	 Drives, motors, controls, or automatic cut-off devices
27/00	Inking apparatus [1, 2006.01]		for the entire printing mechanism [1, 2006.01]
27/02	• with ink applied by pads or rotary discs [1, 2006.01]	29/387	• • Automatic cut-off devices [5, 2006.01]
27/04	Pads or discs; Ink-supply arrangements	29/393	 Devices for controlling or analysing the entire
	therefor [1, 2006.01]		machine [5, 2006.01]
27/06	 Arrangements to ensure maximum life of pads or discs [1, 2006.01] 	29/40	 Means for printing fixed, i.e. unchanging, matter in addition to selectable matter [1, 2006.01]
27/08	• • Arrangements for multicolour work [1, 2006.01]	29/42	• Scales and indicators, e.g. for determining side
27/10	 with ink applied by rollers; Ink-supply arrangements 		margins [1, 2006.01]
	therefor [1, 2006.01]	29/44	• • for determining top and bottom margins or
27/12	• • Rollers [1, 2006.01]	20 / 40	indicating exhaust of paper [1, 2006.01]
27/14	• • Arrangements for multicolour work [1, 2006.01]	29/46	 Applications of alarms, e.g. responsive to approach of end of line (responsive to transfer-material
27/16	• with ink deposited electrostatically or		breakage or exhaustion B41J 17/36,
05/40	electromagnetically, e.g. powdered ink [1, 2006.01]		B41J 35/36) [1, 2006.01]
27/18	• • with liquid ink deposited [1, 2006.01]	29/48	 responsive to breakage or exhaustion of paper or
27/20	 with ink supplied by capillary action, e.g. through porous type-members, through porous 		approach of bottom of paper [1, 2006.01]
	platens [1, 2006.01]	29/50 29/52	Side-stop mechanisms [1, 2006.01]Top-and-bottom stop mechanisms [1, 2006.01]
27/22	• with inking discs or sectors [1, 2006.01]	29/52 29/54	 Top-and-bottom stop mechanisms [1, 2006.01] Locking devices applied to printing
29/00	Details of, or accessories for, typewriters or selective		mechanisms [1, 2006.01]
	printing mechanisms not otherwise provided	29/56	• • and manually actuated [1, 2006.01]
	for [1, 2006.01]	29/58	• • and automatically actuated [1, 2006.01]
29/02	• Framework [1, 2006.01]	29/60	• • • in response to failure of power
29/04	Means for attaching machines to		supply [1, 2006.01]
	baseboards [1, 2006.01]		

29/62	• • • by the absence of paper to lock hammer mechanism [1, 2006.01]	33/24 33/26	 • with drive applied directly to ribbon [1, 2006.01] • by rollers engaging the ribbon [1, 2006.01]
29/64	• • • by a function of the printer to lock the keyboard [1, 2006.01]	33/28	 • • by mechanism pulling or gripping the ribbon [1, 2006.01]
29/66	Locking devices actuated when platen	33/30	 Escapement mechanisms [1, 2006.01]
	reaches the end of a line [1, 2006.01]	33/32	• • Electromagnetic devices [1, 2006.01]
29/68	• • • by completion of a page or predetermined	33/34	 driven by motors independently of the machine as
	number of lines or exhaustion of paper to lock	33731	a whole [1, 2006.01]
	the keyboard [1, 2006.01]	33/36	• • with means for adjusting feeding rate [1, 2006.01]
29/70	Interlocks between any two carriage-moving	33/38	• • Slow, e.g. "creep", feed mechanisms [1, 2006.01]
	mechanisms, e.g. character-space, back-space, tabulation, carriage-return, or carriage-release	33/382	• • • the ribbon being fed only during carriage
	mechanisms [1, 2006.01]		return [1, 2006.01]
	incertains in [2, =00002]	33/384	 • • • and attached to the carriage during writing [1, 2006.01]
Ink ribbo	ons; Ink-ribbon mechanisms	33/386	• • the ribbon being fed only by operation of the
11111 11000	The House Mechanisms		line-spacing mechanism [1, 2006.01]
31/00	Ink ribbons (sheet material for duplicating or marking	33/388	the ribbon being fed only when type impression
	B41M 5/00; storing webs or tapes, e.g. on reels,		takes place [1, 2006.01]
	B65H 75/00); Renovating or testing ink ribbons [1, 2006.01]	33/40	• • with arrangements for reversing the feed
31/02	Ink ribbons characterised by the material from which	22/42	direction [1, 2006.01]
31/02	they are woven [1, 2006.01]	33/42	• • • manually [1, 2006.01]
31/04	• • woven from synthetic material [1, 2006.01]	33/44	• • • automatically [1, 2006.01]
31/05	 Ink ribbons having coatings other than impression- 	33/46	• • • and characterised by its application to mechanism in which two spools are driven
	material coatings [1, 2006.01]		by pawl-and-rachet mechanism [1, 2006.01]
31/06	 the coatings being directly on the base material, 	33/48	• • • comprising two pawls and ratchets, one
	i.e. below impression-transfer material; Ink		for each spool [1, 2006.01]
	ribbons having base material impregnated with	33/50	• • • • comprising a single pawl or integral
	material other than impression material [1, 2006.01]		double-tooth pawl selectively engageable
31/08	the coatings being superimposed on impression-		with two ratchets, one for each
31/00	transfer material [1, 2006.01]	33/51	spool [1, 2006.01]
31/09	Ink ribbons characterised by areas carrying media for	33/51	 • • • and characterised by the use of particular reversing control means [1, 2006.01]
	obliteration or removal of typing errors [4, 2006.01]	33/512	• • • • using a pivoted reversing-feeler engaging
31/10	 Ink ribbons having arrangements to facilitate 	55/512	the external periphery of the wound
	threading through a machine [1, 2006.01]		ribbon [1, 2006.01]
31/12	Ink ribbons having arrangements to prevent	33/514	• • • • using a pivoted reversing-feeler engaging
	undesired contact between the impression-transfer material and machine parts or other		the interior of the wound
	articles [1, 2006.01]	22/516	ribbon [1, 2006.01]
31/14	• Renovating or testing ink ribbons [1, 2006.01]	33/516	• • • • using a reversing-feeler responsive to the tension of the ribbon [1, 2006.01]
31/16	while fitted in the machine using the ink	33/518	• • • • the reversing-feeler engaging buttons or
	ribbons [1, 2006.01]	33/310	the like secured to the ribbon near its
			ends [1, 2006.01]
32/00	Ink-ribbon cartridges [3, 2006.01]	33/52	• • Braking devices therefor [1, 2006.01]
32/02	• for endless ribbons [3, 2006.01]	33/54	 for ensuring maximum life of the ribbon
33/00	Apparatus or arrangements for feeding ink ribbons		(B41J 33/38 takes precedence; by adjustment of
	or like character-size impression-transfer material	22/50	vibrator mechanisms B41J 35/14) [1, 2006.01]
	(ink-ribbon cartridges B41J 32/00) [1, 2006.01]	33/56	• • Ribbon adjusted transversely [1, 2006.01]
33/02	• Ribbon arrangements [1, 2006.01]	33/58	• • Ribbon fed angularly [1, 2006.01]
33/04	 mounted on moving carriages [1, 2006.01] 	33/60	 responsive to telegraph code or other extraneous signals [1, 2006.01]
33/06	Ribbons associated, but not moving, with		31g11013 [1, 2000.01]
	typewriter platens, e.g. extending transversely to the length of the platen [1, 2006.01]	35/00	Other apparatus or arrangements associated with, or
33/08	• • and extending parallel to the length of the		incorporated in, ink-ribbon mechanisms [1, 2006.01]
33/00	platen [1, 2006.01]	35/02	• Frames or holders for unwound short lengths of ink
33/10	 Arrangements of endless ribbons [1, 2006.01] 	25 (02	ribbons [1, 2006.01]
33/12	Ribbons carried by coaxially-mounted	35/03	 the holder being movable to inoperative position, e.g. by swinging upwardly [1, 2006.01]
	spools [1, 2006.01]	35/04	• Ink-ribbon guides [1, 2006.01]
33/14	• Ribbon-feed devices or mechanisms [1, 2006.01]	35/04	• stationary [1, 2006.01]
33/16	• • with drive applied to spool or spool	35/08	 with tensioning arrangements [1, 2006.01]
55	spindle [1, 2006.01]	35/10	 Vibrator mechanisms; Driving gear
33/18	• • by ratchet mechanism (B41J 33/30 takes		therefor [1, 2006.01]
22/20	precedence) [1, 2006.01]	35/12	• • adjustable, e.g. for case shift (key actions
33/20	• • • by friction [1, 2006.01]		B41J 25/02) [1, 2006.01]
33/22	• • • by gears or pulleys [1, 2006.01]		

35/14	 • • • for multicolour work; for ensuring maximum 	35/26	 Ink-ribbon shields or backings [1, 2006.01]
	life of ink ribbon; for rendering ink ribbon	35/28	 Detachable carriers or holders for ink-ribbon
	inoperative [1, 2006.01]		mechanisms [1, 2006.01]
35/16	 Multicolour arrangements (B41J 35/10 takes 	35/30	 Manifolding or like arrangements [1, 2006.01]
	precedence) [1, 2006.01]	35/32	 for producing a plurality of copies along the
35/18	 Colour change effected automatically [1, 2006.01] 		printing line by a single ink ribbon [1, 2006.01]
35/20	 Ink-ribbon shifts, e.g. for exposing print, for case- shift adjustment, for rendering ink ribbon inoperative [1, 2006.01] 	35/34	 using a plurality of separate ink ribbons, e.g. including one hectographic ink ribbon [1, 2006.01]
35/22	 Mechanisms permitting the selective use of a plurality of ink ribbons [1, 2006.01] 	35/35	 using unwound short lengths of ink ribbons [1, 2006.01]
35/23	 with two or more ribbon guides [1, 2006.01] 	35/36	 Alarms, indicators, or feed-disabling devices
35/24	 Mechanisms specially adapted for feeding impression-transfer materials of foil 		responsive to ink-ribbon breakage or exhaustion [1, 2006.01]
	form [1, 2006.01]	35/38	• Feeding the ink ribbon to waste after use [1, 2006.01]

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)

1/00	Portable hand-operated devices without means for supporting or locating the articles to be stamped, i.e. hand stamps; Inking devices or other accessories therefor [1, 2006.01]	 1/50 • • • Stamping surfaces impregnated with ink, or made of material leaving a mark after stamping contact [1, 2006.01]
1/02	 with one or more flat stamping surfaces having fixed 	1/52 • • • Ink reservoirs, e.g. integral with stamp handles [1, 2006.01]
	images [1, 2006.01]	1/54 • • • Inking pads [1, 2006.01]
1/04	 with multiple stamping surfaces; with stamping 	1/56 • • Handles [1, 2006.01]
	surfaces replaceable as a whole [1, 2006.01]	1/58 • • Stands or other means for keeping hand stamps or
1/06	 with means for locating the image to be obtained [1, 2006.01] 	the like within easy reach [1, 2006.01]
1/08	 with a flat stamping surface and changeable characters [1, 2006.01] 	3/00 Apparatus for stamping articles having integral means for supporting the articles to be stamped
1/10	 having movable type-carrying bands or chains [1, 2006.01] 	(means for printing on articles of special shape or having a surface of particular configuration B41F 17/00) [1, 2006.01]
1/12	 having adjustable type-carrying wheels [1, 2006.01] 	 3/02 • with stamping surface located above article-
1/14	 having automatic means for changing type- characters [1, 2006.01] 	supporting surface [1, 2006.01] 3/04 • and movable at right angles to the surface to be
1/16	• • • Numbering devices [1, 2006.01]	stamped [1, 2006.01]
1/18	• • • • for pages [1, 2006.01]	3/06 • • having type-carrying bands or
1/20	 with means for locating the image to be obtained [1, 2006.01] 	chains [1, 2006.01] 3/08 • • having adjustable type-carrying
1/22	 with curved stamping surfaces for stamping by rolling contact [1, 2006.01] 	wheels [1, 2006.01] 3/10 • • having automatic means for changing type-
1/24	 Rocking stamps [1, 2006.01] 	characters, e.g. numbering devices [1, 2006.01]
1/26	 with stamping surfaces adapted for application to 	3/12 • • with curved stamping surface for stamping by rolling contact [1, 2006.01]
	non-flat surfaces [1, 2006.01]	3/14 • • • for relief stamping [1, 2006.01]
1/28	• • flexible [1, 2006.01]	3/16 • • • for intaglio stamping [1, 2006.01]
1/30	 for offset or intaglio stamping [1, 2006.01] 	3/18 • • • for offset stamping [1, 2006.01]
1/32	 for stencilling [1, 2006.01] 	3/20 • • • for stencilling [1, 2006.01]
1/34	 for multicolour stamping [1, 2006.01] 	3/22 • • • with means for producing distorted
1/36	• Details [1, 2006.01]	images [1, 2006.01]
1/38	 Inking devices; Stamping surfaces [1, 2006.01] 	3/24 • for multicolour stamping [1, 2006.01]
1/40	 Inking devices operated by stamping movement [1, 2006.01] 	3/26 • with stamping surface located below article-supporting surface [1, 2006.01]
1/42	• • • with pads or rollers movable for	3/28 • • and bearing a positive image [1, 2006.01]
	inking [1, 2006.01]	3/30 • • and having means for varying the image, e.g.
1/44	• • • for offset, intaglio, or stencil stamping [1, 2006.01]	by exchanging stamping plates in succession [1, 2006.01]
1/46	• • • for multicolour stamping [1, 2006.01]	3/32 • with co-operating stamping and counter-stamping
1/48	• • with ink ribbons, ink sheets, or carbon tape or paper [1, 2006.01]	members [1, 2006.01]

IPC (2021.01), Section B 19

3/34

• • in the form of indexable cylinders, e.g. of curved or polygonal cross-section, or of movable chains

or bands [1, 2006.01]

paper [1, 2006.01]

3/36	 with means for deforming or punching the copy matter [1, 2006.01] 	3/60	 using rollers, e.g. rollers with integral ink-supply devices [1, 2006.01]
3/38	• • separate from the stamping means [1, 2006.01]	3/62	 Details or accessories [1, 2006.01]
3/40	 for numerical or alphabetical characters [1, 2006.01] 	3/64	• • Stamping mechanisms controlled by feed of copy matter [1, 2006.01]
3/42	 Stamping apparatus with selection mechanisms for successively stamping and delivering lists or other items giving information, e.g. for warehouse 	3/66	 Safety devices, e.g. for preventing extraction of copy matter before completion of stamping operation [1, 2006.01]
	administration, washing lists, supermarket guides [1, 2006.01]	3/68	 Cutting or severing devices (in general B26) [1, 2006.01]
3/44	 Means for handling copy matter [1, 2006.01] 		
3/46	 for locating when stationary [1, 2006.01] 	5/00	Plier-like tools for stamping, or stamping and
3/48	 for conveying intermittently to or from stamping 		delivering, tickets or the like [1, 2006.01]
	station [1, 2006.01]	5/02	 with means for varying the image
3/50	 for conveying during stamping 		stamped [1, 2006.01]
	operation [1, 2006.01]	5/04	 with devices for collecting counterfoils, or with other
3/52	• • for discharging [1, 2006.01]		means for recording stamping operations (counting
3/54	• Inking devices [1, 2006.01]		devices G06M) [1, 2006.01]
3/56	• • using inking pads [1, 2006.01]	5/06	 for recording on separate tape [1, 2006.01]
3/58	 using inking pads [1, 2000.01] using ink ribbons, ink sheets, or carbon tape or 	5/08	 with counting devices [1, 2006.01]
3/30	paper [1, 2006.01]		
	paper [1, 2000.01]	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
From hectographic masters	19/00
PRINTING	
Letterpress apparatusLithographic apparatusOther 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
Inking	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	45/00, 47/00, 49/00

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 [1, 2006.01]
- 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 [1, 2006.01]
- 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, 2006.01]
- 1/06 • on single form sets **[1, 2006.01]**
- 1/08 • on continuous manifold assemblies [1, 2006.01]
- 1/10 • Separate folding or disposition of single webs [1, 2006.01]
- 1/12 • Severing webs to obtain single sheets or forms, e.g. by cutting, by bursting [1, 2006.01]
- 1/14 • Severing edge perforations from webs [1, 2006.01]
- 1/16 Carriers or supply devices for pressure-sensitive material, e.g. for carbon sheets; Carbon gloves [1, 2006.01]
- 1/18 • for carbon webs; Continuous carbon-supply mechanisms [1, 2006.01]
- 1/20 Manifolding assemblies, e.g. book-like assemblies [1, 2006.01]
- 1/22 made up of single sheets or forms **[1, 2006.01]**
- 1/24 • Pads or books [1, 2006.01]
- 1/26 Continuous assemblies made up of webs [1, 2006.01]
- 1/28 • in rolled or wound form [1, 2006.01]
- 1/30 • folded longitudinally **[1, 2006.01]**
- 1/32 • folded transversely **[1, 2006.01]**
- 1/34 • for making masters for hectographic duplicators [1, 2006.01]
- 1/36 • with pressure-sensitive layers or coating other than carbon (sheet materials B41M 5/00) [1, 2006.01]
- 3/00 Platens or like sheet supports for manifolding using pressure-sensitive layers or intermediaries, e.g. for book-keeping purposes [1, 2006.01]
- with stationary clamping means for holding the manifolding assembly in registered position, e.g. resilient clamps for holding non-perforated sheets [1, 2006.01]
- 3/04 Bars provided with pins engaging perforations in the elements [1, 2006.01]
- with movable clamping or guiding means for the elements of the manifolding assembly [1, 2006.01]
- with non-mechanical means for holding the elements in registered position, e.g. magnetic means [1, 2006.01]
- 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 [1, 2006.01]
- 3/12 Auxiliary devices **[1, 2006.01]**
- 3/14 Magazines or storage compartments, e.g. for slips [1, 2006.01]
- 3/16 • Web-feeding arrangements **[1, 2006.01]**
- 3/18 • Displaceable covers, e.g. with windows **[1, 2006.01]**
- 3/20 for facilitating manifolding in books [1, 2006.01]

- 3/22 • Applications of ink ribbons; Holding, feeding, or guiding means therefor [1, 2006.01]
- 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) [1, 2006.01]
- with means for limiting movements of webs fed by hand [1, 2006.01]
- with mechanisms for feeding webs or for arranging web feed; with web-storage arrangements [1, 2006.01]
- 5/06 • by means of rollers, wheels, or chains **[1, 2006.01]**
- 5/08 • by reciprocating mechanisms [1, 2006.01]
- with mechanisms for feeding the pressure-sensitive web or webs separately from the other webs, e.g. transversely [1, 2006.01]
- 5/12 with means for indicating exhaustion of web supply **[1, 2006.01]**
- with auxiliary means for printing, perforating, or severing the web [1, 2006.01]
- 5/16 Accessories, e.g. drawers for storing forms, for money (cash registers G07G) [1, 2006.01]

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 [1, 2006.01]
- 7/02 by passing original and copy-sheet or -web between rollers [1, 2006.01]
- 7/04 • with means for guiding original or copy-sheet or web $\boldsymbol{[1,2006.01]}$
- 7/06 with means for severing copy-sheet or web [1, 2006.01]
- 7/08 • with means for moistening or drying [1, 2006.01]
- 9/00 Apparatus for indirectly duplicating from hectographic originals by means of hectographic intermediaries or transfer surfaces, i.e. "dry duplicators" [1, 2006.01]
- 9/02 Containers for clay or gelatin [1, 2006.01]
- 9/04 with flat supports over which gelatin-paper is stretched [1, 2006.01]
- 9/06 and with carriages for feeding the sheets [1, 2006.01]
- 9/08 • and with devices for rolling-in and securing hectographic gelatin-paper webs [1, 2006.01]
- 9/10 with rotary cylinders carrying sheets of hectographic gelatin-paper [1, 2006.01]
- 11/00 Apparatus for directly duplicating from hectographic masters in mirror image, i.e. "wet duplicators" for producing positive copies [1, 2006.01]
- with a flat support carrying the masters [1, 2006.01]
- 11/04 and with carriages for feeding the sheets **[1, 2006.01]**
- 11/06 • for stack duplicating with pressure rollers [1, 2006.01]
- with rotary cylinders carrying the masters [1, 2006.01]
- 11/10 with two rollers between which master is stretched [1, 2006.01]
- 11/12 Driving gear; Control thereof **[1, 2006.01]**

11/14	 Constructional features of masters (chemical aspects B41M) [1, 2006.01] 	19/02	 having forme cylinders carrying a plurality of printing surfaces, or for performing letterpress and lithographic processes selectively or in combination
13/00	Stencilling apparatus for office or other commercial		(in general B41F 11/00) [1, 2006.01]
	use (screen printing B41F 15/00; stencils, stencil	19/04	 for printing from selected parts of one or more
	materials, carriers therefor B41N 1/24) [1, 2006.01]		printing surfaces in one cycle, e.g. line printing (by
13/02	 with flat stencil carriers [1, 2006.01] 		inking selected areas B41L 27/20) [1, 2006.01]
13/04	 with curved or rotary stencil carriers [1, 2006.01] 	19/06	 with co-operating forme and impression
13/06	 with a single cylinder carrying the 		cylinders [1, 2006.01]
	stencil [1, 2006.01]	19/08	 • by effecting relative movement of forme and
13/08	 with stencil carried by two or more cylinders, e.g. 		impression cylinders during printing
	through the intermediary of endless		cycle [1, 2006.01]
	bands [1, 2006.01]	19/10	• • by projecting and retracting parts of the
13/10	• • • Clips or clamps for securing stencils to stencil		surfaces of the forme cylinders [1, 2006.01]
10/10	carriers [1, 2006.01]	19/12	• • by masking parts of the printing surfaces on the
13/12	• for special purposes, e.g. for reproducing Braille	10/11	forme cylinders [1, 2006.01]
10/14	characters [1, 2006.01]	19/14	• • • by selective damping of the copy
13/14	• Attachments, e.g. for punching, cutting,	10/16	material [1, 2006.01]
12/16	severing [1, 2006.01]	19/16	 • by selective tripping of impression cylinders [1, 2006.01]
13/16	• Driving gear; Control thereof [1, 2006.01]		Cynniders [1, 2000.01]
13/18	• Inking units [3, 2006.01]		
15/00	Letterpress printing apparatus specially adapted for	Common	n details of, or accessories for, apparatus or machines
15/00	office or other commercial purposes (in general B41F;		folding, duplicating, or printing for office or other
	printing plates or foils, materials therefor		<u>cial purposes</u>
	B41N 1/00) [1, 2006.01]		
15/02	 with flat printing surfaces, e.g. with flat type-beds, 	21/00	Devices for conveying sheets or webs of copy
	surfaces made of thin sheet material or moulded from		material through apparatus or machines for
	plastics or rubber [1, 2006.01]		manifolding, duplicating, or printing (mechanisms for
15/04	 of composed type locked in chases [1, 2006.01] 		conveying copy material through addressing machines or like series-printing machines
15/06	 with curved printing surfaces, e.g. 		B41L 47/24) [1, 2006.01]
	cylinders [1, 2006.01]	21/02	• for conveying sheets [1, 2006.01]
15/08	• • with stereotypes [1, 2006.01]	21/02	• • Pins [1, 2006.01]
15/10	 for multicolour printing; for perfecting [1, 2006.01] 	21/04	• • Grippers [1, 2006.01]
15/12	 Driving gear; Control thereof [1, 2006.01] 		**
15/14	 Attachments, e.g. for punching, cutting, 	21/08	• • Suction-operated grippers [1, 2006.01]
	severing [1, 2006.01]	21/10	 Combinations of endless conveyors and grippers [1, 2006.01]
4= 400		21/12	
17/00	Lithographic printing apparatus for office or other	21/12	• for conveying webs [1, 2006.01]
	commercial purposes (in general B41F; printing plates or foils, materials therefor B41N 1/00) [1, 2006.01]	23/00	Devices for treating the surface of sheets, webs, or
17/02	•		other articles in connection with printing (cleaning in
	• for direct impression printing [1, 2006.01]		general B08B, of metals C23G; as a final step in the
17/04	• • with flat printing surfaces [1, 2006.01]		manufacture of such articles, see the relevant places, e.g
17/06	• • with curved printing surfaces, e.g.		B29C 71/00, D21H 23/00 or D21H 25/00; after-
17/00	cylinders [1, 2006.01]		treatment of prints B41M 7/00) [1, 2006.01]
17/08	• for offset printing [1, 2006.01]	23/02	 by damping, e.g. by moistening copy-sheets in
17/10	• • with flat printing surfaces, e.g. co-operating with		connection with hectographic printing [1, 2006.01]
17/10	travelling offset cylinders [1, 2006.01]	23/04	 using friction rollers [1, 2006.01]
17/12	 with curved printing surfaces, e.g. forme cylinders [1, 2006.01] 	23/06	 using brushes [1, 2006.01]
17/14		23/08	 using spray elements [1, 2006.01]
17/14	 of two-cylinder type, e.g. co-operating forme and impression cylinders [1, 2006.01] 	23/10	 using endless bands [1, 2006.01]
17/16	• of three-cylinder type [1, 2006.01]	23/12	 using absorbent pads [1, 2006.01]
17/18	• for multicolour printing, e.g. tandem machines; for	23/14	 Ducts, containers, or like supply devices for
1//10	perfecting [1, 2006.01]		liquids [1, 2006.01]
17/20	without damping means, e.g. using heat-activatable	23/16	 Devices for tripping or lifting damping rollers;
1//20	inks, refrigerated printing surfaces [1, 2006.01]		Supporting, adjusting, or removing arrangements
17/22	 Driving gear; Control thereof [1, 2006.01] 		therefor [1, 2006.01]
17/24	Attachments, e.g. for punching, cutting,	23/18	 Construction of damping rollers [1, 2006.01]
1//24	• Attachments, e.g. for punching, cutting, severing [1, 2006.01]	23/20	 by heat drying, by cooling, by applying
	50 vering [1, 2000,01]		powders [1, 2006.01]
19/00	Duplicating or printing apparatus or machines for	23/22	Powdering devices, e.g. for preventing set-
	office or other commercial purposes, of special types		off [1, 2006.01]
	or for particular purposes and not otherwise	23/24	Print-finishing devices, e.g. for glossing
	provided for (addressing machines		prints [1, 2006.01]
	B41L 45/00) [1, 2006.01]		

25/00	Devices for damping printing surfaces, e.g. moistening printing surfaces in connection with lithographic printing (applying liquids or other fluent	29/16	• • operating automatically during operation of rotary machines to attach the printing formes to the forms cylinders [1, 2006 01].
	materials to surfaces, in general B05) [1, 2006.01]	29/18	the forme cylinders [1, 2006.01] • • • electromagnetic, pneumatic, or
25/02	 using friction rollers [1, 2006.01] 		hydraulic [1, 2006.01]
25/04	 using brushes [1, 2006.01] 	29/20	 for adjusting position of leading edges of
25/06	 using spraying elements [1, 2006.01] 		flexible printing formes circumferentially of
25/08	 using endless bands [1, 2006.01] 		forme cylinders [1, 2006.01]
25/10	 using absorbent pads [1, 2006.01] 	29/22	for attaching printing formes to intermediate
25/12	 Ducts, containers, or like supply devices for 		supports, e.g. adapter members [1, 2006.01]
25/14	liquids [1, 2006.01] Inking rollers serving also to apply ink	31/00	Devices for removing flexible printing formes from forme cylinders [1, 2006.01]
	repellent [1, 2006.01]		•
25/16	 Devices for tripping or lifting damping rollers; Supporting, adjusting, or removing arrangements therefor [1, 2006.01] 	33/00	Pressing flexible printing formes or sheets or webs of copy material against cylinders, e.g. for smoothing purposes [1, 2006.01]
25/18	 Construction of damping rollers [1, 2006.01] 		
D= /00		35/00	Cylinders for apparatus or machines for
27/00	Inking arrangements or devices (inking units for		manifolding, duplicating, or printing for office or
	stencilling apparatus B41L 13/18; applying liquids or	25 / 62	other commercial purposes [1, 2006.01]
	other fluent materials to surfaces, in general B05) [1, 3, 2006.01]	35/02	• Forme cylinders [1, 2006.01]
27/02	 adapted for inking by hand [1, 2006.01] 	35/04	• • Registering devices [1, 2006.01]
27/02	Ducts, containers, supply devices or ink-level control	35/06	• • • with means for displacing the
2//04	devices (level control in general	25 / 00	cylinders [1, 2006.01]
	G05D 9/00) [1, 3, 2006.01]	35/08	• • • with means for displacing the printing formes
27/06	 Duct-blades or like supply devices [1, 2006.01] 	25 /10	on the cylinders [1, 2006.01]
27/08	Troughs or like reservoirs with immersed, or	35/10	• Impression cylinders [1, 2006.01]
27700	partly immersed, rollers [1, 2006.01]	35/12	 Bearings or supports for forme, offset or transfer, or impression cylinders [1, 2006.01]
27/10	• • with ink-ejection means, e.g. pumps, nozzles [1, 2006.01]	35/14	 Means for heating or cooling forme or impression cylinders [1, 2006.01]
27/12	 Feed or duct rollers (messenger or moving transfer rollers B41L 27/16) [1, 2006.01] 	35/16	 Cylinder-tripping devices; Cylinder-impression adjustments [1, 2006.01]
27/14	• • • adjustable for regulating supply [1, 2006.01]	35/18	 Arrangements or dispositions of cylinder bearings,
27/16	Messenger or other moving transfer rollers [1, 2006.01]	35/20	forks, or supports [1, 2006.01] • Eccentric bearings [1, 2006.01]
27/18	Continuous, e.g. endless-band, apparatus [1, 2006.01]	35/22	• • • Sliding bearings [1, 2006.01]
27/20	 for inking selected parts of printing 	35/24	• • • Swinging bearings [1, 2006.01]
	formes [1, 2006.01]	35/26	 Cylinder-lifting or adjusting devices [1, 2006.01]
27/22	 Ink-removing or collecting devices [1, 2006.01] 	35/28	 Cams, eccentrics, wedges, or the
27/24	 for inking from interior of cylinder [1, 2006.01] 	33720	like [1, 2006.01]
27/26	 Absorbent pads [1, 2006.01] 	35/30	electrically or magnetically
27/28	 Construction of inking rollers [1, 2006.01] 	30.00	operated [1, 2006.01]
27/30	• Spray apparatus, e.g. containing brushes [1, 2006.01]	35/32	• • • fluid-pressure operated [1, 2006.01]
27/32	 Arrangements for tripping, lifting, adjusting, or 	35/34	Guards or covers, e.g. for safety purposes, for
	removing inking rollers; Supports, bearings, or forks		preventing egress or ingress of foreign
	therefor [1, 2006.01]		matter [1, 2006.01]
27/34	 Lifting or adjusting devices [1, 2006.01] 		
27/36	 Cams, eccentrics, wedges, or the like devices [1, 2006.01] 	38/00	Devices for attaching coverings or make-ready devices; Guiding devices for coverings (make-ready devices PAIN 6/00) blookets or like severings
27/38	• • • fluid-pressure operated [1, 2006.01]		devices B41N 6/00; blankets or like coverings B41N 10/00) [5, 2006.01]
27/40	• • • magnetically operated [1, 2006.01]	38/02	 attaching to impression cylinders [5, 2006.01]
29/00	Devices for attaching printing elements or formes to supports [1, 2006.01]	38/04	 attaching of endless or like continuously-fed coverings [5, 2006.01]
29/02	• magnetic [1, 2006.01]	39/00	Indicating, counting, warning, control or safety
29/04	 for attaching printing elements to flat type- beds [1, 2006.01] 	33700	devices (ink-level control devices B41L 27/04; such devices in general, <u>see</u> the relevant subclasses, e.g.
29/06	 for attaching printing elements to forme cylinders [1, 2006.01] 	39/02	counting in general G06M) [1, 3, 2006.01] • Indicating devices, e.g. counters [1, 2006.01]
29/08	for attaching printing formes to flat type-	39/04	 Tripping devices or stop-motions [1, 2006.01]
29/10	beds [1, 2006.01]for attaching non-deformable curved printing formes	39/06	 for starting or stopping operation of sheet or web feed [1, 2006.01]
	to forme cylinders [1, 2006.01]	39/08	 for starting or stopping operation of
29/12	• for attaching flexible printing formes [1, 2006.01]	55700	cylinders [1, 2006.01]
29/14	• • Clamping devices [1, 2006.01]		-y,

39/10	 for starting or stopping operation of damping or inking units [1, 2006.01] 	47/18	 Devices for feeding the plates in their plane [1, 2006.01]
39/12	 for starting or stopping the machines as a whole [1, 2006.01] 	47/20	• • Devices for feeding the plates otherwise than in their plane, e.g. transversely thereto [1, 2006.01]
39/14	 Automatic control of tripping devices by feelers, 	47/22	 with means for presenting plates for repeated
	photoelectric devices, pneumatic devices, or other		printing operations [1, 2006.01]
	detectors [1, 2006.01]	47/24	 Mechanisms for conveying copy material through
39/16	Programming systems for automatic control of		addressing machines or like series-printing machines
	sequence of operations [1, 2006.01]	47.000	(in general B65H) [1, 2006.01]
41/00	Cleaning arrangements or devices [1, 2006.01]	47/26	 for conveying or positioning single sheet-like articles, e.g. envelopes [1, 2006.01]
41/02	• for forme cylinders [1, 2006.01]	47/28	 with gauging-rulers or the like, e.g. for facilitating
41/04	• for inking rollers [1, 2006.01]	.,, 20	hand-printing of copy material fed from
41/06	• for offset cylinders [1, 2006.01]		stacks [1, 2006.01]
42 /00	Associations folding collecting or depositing of charts	47/30	 for conveying webs [1, 2006.01]
43/00	Auxiliary folding, collecting, or depositing of sheets or webs [1, 2006.01]	47/32	• • • combined with devices for other purposes, e.g.
43/02	• Folding [1, 2006.01]	47/34	for cutting, severing, gluing [1, 2006.01] • • • specially adapted for conveying chains of
43/04	• • lengthwise [1, 2006.01]	4//34	forms [1, 2006.01]
43/06	• • crosswise [1, 2006.01]	47/36	 for conveying sheets or webs for tabulating
43/08	• • Folding-cylinders or -drums [1, 2006.01]	,	purposes; Tabulating mechanisms combined with
43/10	• Collecting [1, 2006.01]		sheet or web conveyors [1, 2006.01]
43/12	• • and stapling [1, 2006.01]	47/38	• • with clamping means for head or
43/14	 Adding inserts [1, 2006.01] 	47.740	margin [1, 2006.01]
43/16	• Depositing [1, 2006.01]	47/40	• • with means for automatically reciprocating sheet or web transversely to enable addresses to
			be printed in columns side by side [1, 2006.01]
Addressi	ng machines or like series-printing machines	47/42	 Printing mechanisms [1, 2006.01]
		47/44	• • using flat platens [1, 2006.01]
45/00	Kinds or types of addressing machines or of like	47/46	 using line-contact members, e.g. rollers,
45 /00	series-printing machines [1, 2006.01]		cylinders [1, 2006.01]
45/02 45/04	• using printing plates [1, 2006.01]	47/48	• • with inking or ink-ribbon devices [1, 2006.01]
45/04 45/06	composed on type-setting machines [1, 2006.01]for addressing combined with other operations,	47/50	• • using multiple impression-members or -surfaces,
43/00	e.g. franking, collating documents [1, 2006.01]		e.g. for printing series of addresses with standing context, for printing from selected parts of printing
45/08	 with printing surfaces in the form of belts, or carried 		surfaces (applications of counting, numbering, or
	by chains [1, 2006.01]		dating apparatus B41L 49/02) [1, 2006.01]
45/10	 for addressing combined with other operations, 	47/52	• • with movable counter-pressure plates for printing
45 /40	e.g. franking, collating documents [1, 2006.01]		from selected areas of printing
45/12	with separate devices for printing additional texts or images, a.g. for printing resolute on blank sheets or	47/54	surfaces [1, 2006.01]with means for automatically reciprocating
	images, e.g. for printing receipts on blank sheets or webs [1, 2006.01]	4//34	printing plate transversely to enable addresses to
			be printed in columns side by side [1, 2006.01]
47/00	Details of addressing machines or like series-printing	47/56	 Indicating, warning, control or safety devices
	machines (common details of printing machines B41F 21/00-B41F 35/00) [1, 2006.01]		(B41L 47/58 takes precedence) [1, 2006.01]
47/02	Applications of printing surfaces in addressing	47/58	Arrangements or devices for selecting, or for facilitating collection of text or impose to be
17702	machines or like series-printing machines (printing		facilitating selection of, text or image to be printed [1, 2006.01]
	surfaces in general B41N) [1, 2006.01]	47/60	Markings applied to printing plates, e.g. code
47/04	 of flat or curved plates for relief 	.,, 00	marks, colours, clips, perforations, edge notches,
	printing [1, 2006.01]		projections [1, 2006.01]
47/06	• • of flat or curved stencils [1, 2006.01]	47/62	Selecting devices, e.g. cams, windows, position
47/08	 of flat or curved plates for hectographic printing [1, 2006.01] 	47.16.4	indicators [1, 2006.01]
47/10	• • of printing surfaces in the form of belts or	47/64	 • Automatic selecting devices with or without overriding manual control, e.g. with scanning-
.,, 10	chains [1, 2006.01]		fingers, with presetting controls operable by
47/12	 Auxiliary devices, e.g. for flattening plates, for 		push-buttons, with programme control by
	assembling plates in predetermined order, for wetting		punched tapes [1, 2006.01]
AT / 4 4	stencils [1, 2006.01]	49/00	Accessories or attachments for addressing machines
47/14	 Devices or arrangements for storing or handling plates [1, 2006.01] 	-1 0700	or like series-printing machines [1, 2006.01]
47/16	• • Magazines [1, 2006.01]	49/02	• Counting, numbering, or dating devices [1, 2006.01]
.,,10		49/04	 Devices for applying selection markings to printing
			plates [1, 2006.01]

PRINTING, DUPLICATING, MARKING, OR COPYING PROCESSES; COLOUR PRINTING (correction of typographical errors B41J; processes for applying transfer pictures or the like B44C 1/16; fluid media for correction of typographical errors by coating C09D 10/00; printing textiles D06P)

1/00	Inking and printing with a printer's	5/035	•	•	•	by sublimation or volatilisation of
	forme [1, 2006.01]	- 101				design [4, 2006.01]
1/02	• Letterpress printing, e.g. book printing [1, 2006.01]	5/04	•	•	•	using solvent-soluble dyestuffs on the master sheet, e.g. alcohol-soluble [1, 5, 2006.01]
1/04 1/06	• Flexographic printing [1, 2006.01]• Lithographic printing [1, 2006.01]	5/06				using master sheets coated with jelly-like
1/08	• Dry printing [1, 2006.01]	3,00				materials, e.g. gelatin [1, 2006.01]
1/10	• Intaglio printing [1, 2006.01]	5/08	•	•	•	• Sheet materials therefor [1, 2006.01]
1/12	• Stencil printing; Silk-screen printing [1, 2006.01]	5/10				using carbon paper or the like [1, 2006.01]
1/14	Multicolour printing [1, 2006.01]	5/124	•			ing pressure to make a masked colour visible, e.g.
1/16	 using different inks which flow into one another to produce iridescent effects [1, 2006.01] 			(op	make a coloured support visible, to create an aque or transparent pattern, or to form colour by
1/18	 Printing one ink over another [1, 2006.01] 	E /400				iting colour-forming components [5, 2006.01]
1/20	 by applying differently-coloured inks 	5/128	•	•	•	Desensitisers; Compositions for fault correction, detection or identification of the
	simultaneously to different parts of the printing					layers [5, 2006.01]
1 /22	surface [1, 2006.01]	5/132	•	•	•	Chemical colour-forming components; Additives
1/22	 Metallic printing; Printing with powdered inks [1, 2006.01] 	= /				or binders therefor [5, 2006.01]
1/24	 combined with embossing (printing machines for 	5/136	•	•	•	 Organic colour formers, e.g. leuco dyes [5, 2006.01]
	carrying out printing operations combined with	5/145				 with a lactone or lactam ring [5, 2006.01]
1 /20	embossing B41F 19/02) [1, 2, 2006.01]	5/15				 Spiro-pyrans [5, 2006.01]
1/26	 Printing on other surfaces than ordinary paper (B41M 1/40 takes precedence) [1, 2006.01] 	5/155				Colour-developing components, e.g. acidic
1/28	• • on metals [1, 2006.01]					compounds; Additives or binders therefor;
1/30	on organic plastics, horn, or like					Layers containing such colour-developing
	materials [1, 2006.01]	5/165				components, additives or binders [5, 2006.01] characterised by the use of microcapsules; Special
1/32	• • on rubber [1, 2006.01]	3/103	·	•	•	solvents for incorporating the
1/34	• • on glass or ceramic surfaces [1, 2006.01]					ingredients [5, 2006.01]
1/36	 on pretreated paper, e.g. on parchment, oiled paper, paper for registration purposes [1, 2006.01] 	5/20	•			ing electric current (B41M 5/24 takes ecedence) [1, 5, 2006.01]
1/38	on wooden surfaces, leather, or linoleum (printing	5/24	•	4	Al	plative recording, e.g. by burning marks; Spark
	on matches or match boxes when combined with match manufacture C06F 1/18) [1, 2006.01]					cording [1, 5, 2006.01]
1/40	• Printing on bodies of particular shapes [1, 2006.01]	5/26	•			ermography (B41M 5/20, B41M 5/24 take
1/42	Printing without contact between forme and surface					ecedence; photothermographic systems 03C 1/498) [1, 5, 2006.01]
	to be printed, e.g. by using electrostatic	5/28				using thermo-chromic compounds or layers
2.400	fields [2, 2006.01]					containing liquid crystals, microcapsules, bleachable dyes or heat decomposable
3/00	Printing processes to produce particular kinds of printed work, e.g. patterns (special designs or pictures					compounds, e.g. gas liberating [5, 2006.01]
	per se B44F; manufacturing printed circuits using	5/30	•	•	•	using chemical colour formers (B41M 5/34 takes
	printing techniques H05K 3/12) [1, 5, 2006.01]	E /DO				precedence) [5, 2006.01]
3/02	• Maps; Sea or meteorological charts [1, 2006.01]	5/32	•	•	•	 one component thereof being a heavy metal compound [5, 2006.01]
3/04	• Music [1, 2006.01]	5/323				Organic colour formers, e.g. leuco
3/06	Veined printings; Fluorescent printings; Stereoscopic imager, Imitated patterns, e.g., tissues.					dyes [2006.01]
	images; Imitated patterns, e.g. tissues, textiles [1, 5, 2006.01]	5/327	•			• • with a lactone or lactam ring [2006.01]
3/10	• Watermarks [1, 2006.01]	5/333	•	•	•	• Colour developing components therefor, e.g.
3/12	Transfer pictures or the like, e.g.	F/227			_	acidic compounds [2006.01]Additives; Binders [2006.01]
	decalcomanias [1, 2006.01]	5/337 5/34				Multicolour thermography [5, 2006.01]
3/14	• Security printing [1, 2006.01]	5/36	•			using a polymeric layer, which may be particulate
3/16	Braille printing (typewriters or selective printing Desired for Parille printing	3/30				and which is deformed or structurally changed
	mechanisms for Braille printing B41J 3/32) [1, 2, 2006.01]					with modification of its properties, e.g. of its
3/18	• Particular kinds of wallpapers [1, 2006.01]					optical, hydrophobic-hydrophilic, solubility or
	• •	5/382				permeability properties [5, 2006.01] Contact transfer or sublimation processes
5/00	Duplicating or marking methods; Sheet materials for	01002	-			(sublistatic printing B41M 5/035; ink-, dye- or
	use therein (by using light-sensitive materials G03; electrography, magnetography G03G) [1, 2006.01]					pigment-receptive coatings B41M 5/50) [2006.01]
5/025	• by transferring ink from the master sheet [4, 2006.01]	5/385	•	•	•	characterised by the transferable dyes or
5/03	• • by pressure [4, 2006.01]	E /000				pigments [2006.01]
		5/388	•	•	•	• • Azo dyes [2006.01]

5/39 • • • • Dyes containing one or more carbon-to- nitrogen double bonds, e.g. azomethine [2006.01]	5/48 • • • combined with other image registration layers or compositions; Special originals for reproduction by thermography [2006.01]
5/392 • • • Additives other than colour forming substances, dyes or pigments, e.g. sensitisers, transfer promoting agents [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 pretrected paper PA1M 1/26) [1006.01]
5/395 • • • • Macromolecular additives, e.g. binders [2006.01]	pretreated paper B41M 1/36) [2006.01] 5/52 • Macromolecular coatings [2006.01]
5/398 • • Processes based on the production of stickiness patterns using powders [2006.01]	7/00 After-treatment of printed works, e.g. heating,
5/40 • • 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	 irradiating [1, 2006.01] Dusting; Varnishing (devices for treating the surfaces of sheets, webs, or other articles in connection with printing B41F 23/00, B41L 23/00) [1, 2006.01]
thermography [5, 2006.01]	9/00 Processes wherein make-ready devices are used (make-ready devices per se B41N 6/00) [1, 5, 2006.01]
5/41 • • • Base layers [2006.01] 5/42 • • • Intermediate or covering layers [2006.01]	9/02 • Relief make-readies [1, 2006.01]
5/44 • • • characterised by the macromolecular	9/04 • • photomechanical [1, 2006.01]
compounds [2006.01] 5/46 • • • characterised by the light-to-heat converting means; characterised by the heat or radiation filtering or absorbing means or layers [2006.01]	99/00 Subject matter not provided for in other groups of this subclass [2006.01]

PRINTING PLATES OR FOILS (photosensitive materials G03); MATERIALS FOR SURFACES USED IN PRINTING MACHINES FOR PRINTING, INKING, DAMPING, OR THE LIKE; PREPARING SUCH SURFACES FOR USE OR CONSERVING THEM

1/00 1/02	Printing plates or foils; Materials therefor [1, 2006.01]	3/08	 Damping; Neutralising or similar differentiation treatments of lithographic printing formes [1, 5, 2006.01]
1/04 1/06 1/08 1/10 1/12	 made of stone [1, 2006.01] metallic [1, 2006.01] for relief printing or intaglio printing [1, 2006.01] for lithographic printing [1, 2006.01] multiple [1, 2006.01] non-metallic other than stone [1, 2006.01] 	6/00 6/02	Mounting boards; Make-ready devices, e.g. underlays, overlays; Attaching by chemical means, e.g. vulcanising [5, 2006.01] • Chemical means for fastening printing formes on mounting boards [5, 2006.01]
1/14 1/16	Lithographic printing foils [1, 2006.01]Curved printing plates, especially	7/00	Shells for rollers of printing machines [1, 2006.01]
	cylinders [1, 2006.01]	7/02	• of leather [1, 2006.01]
1/18	• • made of stone [1, 2006.01]	7/04	 for damping rollers [1, 2006.01]
1/20	 made of metal [1, 2006.01] 	7/06	 for inking rollers [5, 2006.01]
1/22 1/24	 • made of other substances [1, 2006.01] • Stencils; Stencil materials; Carriers therefor (stencilling apparatus for office or other commercial use B41L 13/00) [1, 2006.01] 	10/00 10/02	Blankets or like coverings; Coverings for wipers for intaglio printing (wipers for intaglio printing B41F 9/08) [5, 2006.01] Blanket structure [5, 2006.01]
3/00	Preparing for use or conserving printing	10/04	• • multi-layer [5, 2006.01]
3/03	surfaces [1, 2006.01]Chemical or electrical pretreatment [5, 2006.01]	10/06	 facilitating fastening to, or location on, supports [5, 2006.01]
3/04	 Graining or abrasion by mechanical means (chemical graining B41N 3/03) [1, 5, 2006.01] 	11/00	Stereotype mats [1, 2006.01]
3/06	• by use of detergents [1, 2006.01]	99/00	Subject matter not provided for in other groups of this subclass [2006.01]