

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

PRINTING

B41 PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS (reproduction or duplication of pictures or patterns by scanning and converting into electrical signals [H04N](#))

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

1/00	Elements or appliances for hand composition; Chases, quoins, or galleys	7/02	. operating with fixed combinations of matrices (details B41B 9/00)
1/02	. Printing letters; Type	7/04	. . for casting individual characters or spaces, e.g. type casting machines
1/025	. . {for languages in which the latin alphabet is not used}	7/06	. . for composing, justifying and casting complete lines of matrices, e.g. "monoline" machines
1/04	. Quadrats or quads: Spaces or other justifiers	7/08	. operating with separate matrices for individual characters or spaces which are selected and assembled (details B41B 11/00)
1/06	. for special purposes	7/10	. . in which a line is composed of matrices and in which single types or spaces are cast, e.g. stringer type
1/08	. . for inserting latest news	7/12	. . in which a justified line is composed of matrices and a type line is cast in one piece
1/10	. . for inserting advertisements	7/14	. . . the matrices being composed by hand
1/12	. . for setting musical notations	7/16	. . . the lines of matrices being composed and justified by machine operation, e.g. line type casting machines, "intertype" machines
1/14	. Composing rules, e.g. of brass	7/18	. . . . the matrices being guided by wires, e.g. "typograph" machines
1/16	. Reglets		
1/18	. Chases		
1/20	. Quoins or other binding means		
1/22	. Composing tables; Type cases; Storage cabinets; Washing or cleaning devices therefor		
1/24	. . Washing or cleaning devices		
1/26	. Composing or setting sticks		
1/28	. Galleys		

Machines or other mechanical apparatus for composing

3/00	Apparatus for mechanical composition using prefabricated type, i.e. without casting equipment	9/00	Details of, or accessories for, machines for mechanical composition using fixed combinations of matrices from which type is cast or moulded
3/02	. Mechanical composing machines using single types or logotypes and having slide magazines therefor, e.g. flat, cylindrical, radial, single magazines	9/02	. Combinations of matrices
3/04	. Means for distributing type	9/04	. Carriers for combinations of matrices, e.g. blocks, cylinders, wheels, bars
3/06	. Justifying means	9/06	. Mechanisms for effecting relative movements of matrix carriers and moulds for character or space selection
5/00	Devices for making type or lines (for mechanical composition B41B 7/00 , B41B 9/00 , B41B 11/00)	9/08	. Moulding or casting devices
5/02	. Matrices	9/10	. . Moulds
5/04	. Casting devices	9/12	. . Justifying devices
5/06	. . mechanically operated	9/14	. . Supply devices for molten metal
5/08	. Tools or auxiliaries	9/16	. Devices for handling type after casting
5/10	. . for polishing or finishing type (polishing in general B24B)	9/18	. . Ejector mechanisms
5/12	. . for making type in the form of lines, e.g. by drawing or casting	9/20	. . Trimming devices
5/14	. . for cutting spaces	11/00	Details of, or accessories for, machines for mechanical composition using matrices for individual characters which are selected and assembled for type casting or moulding
7/00	Kinds or types of apparatus for mechanical composition in which the type is cast or moulded from matrices	11/02	. Matrices
		11/04	. Space bands
		11/06	. Storage devices for matrices or space bands
		11/08	. . Magazines for matrices

- 11/10 . . . for composing by hand
 - 11/12 . . . Attachment of magazines to machines; Magazine-selection or magazine-shift mechanisms ([controlling selection or shifting B41B 27/42](#))
 - 11/14 . . . with escapement devices
 - 11/16 . . Boxes for space bands; Escapements or guides for releasing space bands
 - 11/18 . Devices or arrangements for assembling matrices and space bands ([control devices therefor B41B 27/44](#))
 - 11/20 . . Assembler guide channels
 - 11/22 . . Assembler cover plates or framework
 - 11/24 . . Belt conveyors co-operating with assembler guides
 - 11/26 . . Devices for feeding or guiding space bands into association with matrices
 - 11/28 . . Star wheels or other stacking devices for matrices and space bands; Guides associated therewith
 - 11/30 . . Assembler elevators or associated mechanisms, e.g. braking devices, retaining pawls, line resistants, delivery slides
 - 11/32 . . Transfer channels or line-delivery carriages
 - 11/34 . . First elevators or associated mechanisms
 - 11/36 . . for presenting matrices or space bands directly to moulds
 - 11/38 . Devices for aligning or clamping lines of matrices and space bands
 - 11/40 . . Jaw clamps; Operating devices therefor
 - 11/42 . . . for quadding and centering
 - 11/44 . . . for justifying
 - 11/46 . . Aligning devices
 - 11/48 . . Cleaning devices for aligning jaws ([cleaning matrices B41B 11/96](#))
 - 11/50 . . Vice frames; Devices for releasing or locking
 - 11/52 . Moulding or casting devices or associated mechanisms
 - 11/54 . . Moulds; Liners therefor
 - 11/56 . . . Mould wheels; Slides or driving gear therefor
 - 11/58 with locking wedges
 - 11/60 adjustable or removable
 - 11/62 with interchangeable moulds
 - 11/64 with a series of moulds and mechanism for selecting individual moulds
 - 11/66 . . . mounted on reciprocable carriages
 - 11/68 . . . with provision for adjusting length or width of slot; with a plurality of slots
 - 11/70 . . . for casting type-bars of special form, e.g. with projections
 - 11/72 . . Devices for trimming type-bars; Cleaning devices for trimming knives; Ejectors for type-bars
 - 11/74 . . Devices for supplying molten metal
 - 11/76 . . . Pots ([melting pots for casting stereotype plates B41D 3/20](#))
 - 11/78 movable towards and away from mould
 - 11/80 with stirrers or means for removing dross
 - 11/82 associated with mechanisms for introducing metal in solid form
 - 11/84 Throats or mouthpieces; Wipers for mouthpieces
 - 11/86 Heaters for pots; Temperature-control devices
 - 11/88 . . . Pumps; Stop-motions or safety devices therefor
 - 11/90 . Arrangements or devices for distributing matrices or space bands after casting or moulding
 - 11/92 . . Second elevators
 - 11/94 . . Screw conveyors
 - 11/96 . Devices for cooling or cleaning matrices
- Photographic or photoelectronic composing devices**
- 13/00** **Equipment specially adapted for photographing mounted characters or the like, e.g. advertisements, lines**
 - 13/02 . the characters being composed or mounted by hand, and photographed simultaneously
 - 13/04 . . with means for justifying
 - 13/06 . . . by elastic or extensible type-line carriers
 - 13/08 . . . by optical line correction
 - 13/10 . the characters being progressively photographed one by one
 - 15/00** **Photographic composing machines with movable character carriers for composing lines of characters prior to photography**
 - 15/02 . with means for photographing complete lines
 - 15/04 . . and with carriers for individual characters
 - 15/06 . . and with carriers for complete sets of characters, e.g. slidable elongated members, rotary wheels
 - 15/08 . with means for photographing composed characters in succession
 - 15/10 . Details
 - 15/12 . . Character carriers; Cleaning devices therefor
 - 15/14 . . . with a single character, or with combinations of different styles of a single character
 - 15/16 . . . with combinations of different characters
 - 15/18 . . . with parts of characters for building up complex characters, e.g. oriental characters
 - 15/20 . . Devices for handling or storing character carriers
 - 15/22 . . . Magazines
 - 15/24 . . . for justifying purposes
 - 15/26 . . . for repeating a character
 - 15/28 . . Photographic devices ([in general G03](#))
 - 15/30 . . . Composing cameras
 - 15/32 . . . Film-handling mechanisms
 - 15/34 . . . Adjusting enlargement or register; Correcting exposure time
 - 17/00** **Photographic composing machines having fixed or movable character carriers and without means for composing lines prior to photography**
 - 17/02 . with manually-adjustable character carriers to enable characters to be photographed in succession
 - 17/04 . with a carrier for all characters in at least one font
 - 17/06 . . with an adjustable carrier
 - 17/08 . . with a fixed carrier
 - 17/10 . . with a continuously-movable carrier
 - 17/12 . . with means for moving the optical path for photographing characters, e.g. intermittently
 - 17/14 . . . continuously
 - 17/16 . . with means for moving the film in its plane for photographing characters in succession
 - 17/18 . Details
 - 17/20 . . Character carriers; Cleaning devices therefor
 - 17/22 . . . with a single character; with a single character in more than one style
 - 17/24 . . . with all characters

17/26	. . . . on belts	23/02	. for mixing by line-by-line projection of parts of texts from a number of films on to another
17/28	. . . . on polygonal rods	23/04	. for facilitating hand correction of texts
17/30	. . . . on a sheet of square or rectangular shape	23/06	. for correcting texts by removing incorrect lines from one film and splicing-in corrected lines from another film
17/32	. . . . on a flat disc		
17/34	. . . . on a cylinder		
17/36	. . . with selection indicators		
17/38	. . . with means for indicating the width		
17/40	. . . . in caliper form		
17/42	. . . . in coded form		
19/00	Photoelectronic composing machines	25/00	Apparatus specially adapted for preparation of record carriers for controlling composing machines (for casting individual characters or spaces, e.g. in type casting machines B41B 7/04; methods for marking or reproducing record carriers having digital data thereon in general G06K 1/00)
19/01	. having electron-beam tubes producing an image of at least one character which is photographed		
19/02	. . the characters appearing on the screen in succession		
19/04	. . . at the same place		
19/06	. . . at different predetermined places	25/10	. incorporating devices for line justification, e.g. counting and indicating devices for length of line
19/08	. . with combinations of characters appearing on the screen at the same time	25/12	. . comprising elements which circulate from and to magazines
19/10	. . . in unbroken lines or columns	25/14	. . operating without space bands
19/12	. . . in broken lines or columns	25/16	. . using a binary code for the width of the matrices
19/14	. . . and presenting a text of more than one line	25/18	. combined with type-setting machines
19/16	. . Character carriers associated with electron-beam tubes	25/20	. Auxiliary devices; Devices serving special purposes
		25/22	. . for indicating length of line
21/00	Common details of photographic composing machines of the kinds covered in groups B41B 17/00 and B41B 19/00	25/24	. . for error correction
		25/26	. . for changing the fount of type
21/02	. Shutters in optical systems (in general G03B)	27/00	Control, indicating, or safety devices or systems for composing machines of various kinds or types (computers in general G06F)
21/04	. . for selecting characters		
21/06	. . for adjusting exposures	27/02	. Systems for controlling all operations
21/08	. Light sources; Devices associated therewith, e.g. control devices	27/04	. . Keyboards
21/10	. . Single light sources	27/06	. . . operable by input of recorded or stored information, e.g. on punched tapes
21/12	. . Stroboscopic light sources		
21/14	. . Combinations of light sources	27/08	. . . . from several sources
21/16	. Optical systems (shutters B41B 21/02; light sources B41B 21/08)	27/10	. . with direct control of all operations by input of recorded or stored information
21/18	. . defining a single optical path	27/12	. . . on tapes
21/20	. . . with means for moving stepwise	27/14	. . . . on punched tapes
21/22	. . . with means for moving continuously	27/16	. . . . on magnetic tapes
21/24	. . defining multiple optical paths	27/18	. . . from memory devices
21/26	. . . with means for selecting individual optical paths (means for moving the optical path B41B 17/12)	27/20	. . . . from electromagnetic devices, e.g. memory matrices
21/28	. . . with means for fount selection	27/22	. . . from several sources
21/30	. Electron-beam tubes or charactrons (in general H01J 31/00)	27/24	. . of several associated machines
21/32	. Film carriers; Film-conveying or positioning devices (film-handling means in line-composing photographic devices B41B 15/32; machines with means for moving the film in its plane for photographing characters in succession B41B 17/16)	27/26	. . with means for temporarily arresting input of recorded or stored information to introduce time delays
21/34	. . with positioning mechanisms	27/28	. Control, indicating, or safety devices for individual operations or machine elements (in devices for supplying molten metal B41B 11/86 , B41B 11/88 ; for light sources B41B 21/08)
21/36	. . . for feeding films stepwise in line direction	27/30	. . for arresting or varying speed of one operation in response to failure or variation in speed of another operation
21/38	. . . for feeding films continuously in line direction	27/32	. . for line-justification operations
21/40	. . . for line spacing	27/34	. . . without the use of space bands
21/42	. . . for subscript or superscript notation	27/36	. . . using electronic devices
21/44	. . adjustable for enlarging purposes	27/38	. . for measuring length of composed lines; for reading composed characters
23/00	Auxiliary devices for modifying, mixing or correcting text or layout in connection with photographic or photoelectronic composing	27/40	. . for proof-printing operations
		27/41	. . Printing mechanisms coupled to typographical composing machines

- 27/42 . . for controlling selection or shifting of matrix magazines
- 27/44 . . for controlling assembly of matrices and space bands
- 27/46 . . . for controlling insertion of space bands ([for line justification B41B 27/32](#))
- 27/48 . . for deleting errors or inserting corrections ([means for cancelling or correcting errors in typewriters or selective printing mechanisms B41J 29/26](#))
- 27/50 . . operated by coupled machines