**CPC**  
COOPERATIVE PATENT CLASSIFICATION

**B**  
PERFORMING OPERATIONS; TRANSPORTING  
*(NOTES omitted)*

**PRINTING**

**B41**  
PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS

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

**WARNING**  
In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

| 1/00 | Elements or appliances for hand composition;  
| | Chases, quoins, or galleys |
| 1/02 | . Printing letters; Type |
| 1/025 | . [for languages in which the latin alphabet is not used] |
| 1/04 | . Quadrats or quads; Spaces or other justifiers |
| 1/06 | . for special purposes |
| 1/08 | . for inserting latest news |
| 1/10 | . for inserting advertisements |
| 1/12 | . for setting musical notations |
| 1/14 | . Composing rules, e.g. of brass |
| 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 |
| 3/02 | . Mechanical composing machines using single types or logotypes and having slide magazines therefor,  
| | e.g. flat, cylindrical, radial, single magazines |
| 3/04 | . Means for distributing type |
| 3/06 | . Justifying means |

| 5/00 | Devices for making type or lines (for mechanical composition B41B 7/00, B41B 9/00, B41B 11/00) |
| 5/02 | . Matrices |
| 5/04 | . Casting devices |
| 5/06 | . mechanically operated |
| 5/08 | . Tools or auxiliaries |
| 5/10 | . for polishing or finishing type (polishing in general B24B) |
| 5/12 | . for making type in the form of lines, e.g. by drawing or casting |
| 5/14 | . for cutting spaces |

| 7/00 | Kinds or types of apparatus for mechanical composition in which the type is cast or moulded from matrices |
| 7/02 | . operating with fixed combinations of matrices (details B41B 9/00) |
| 7/04 | . for casting individual characters or spaces, e.g.  
| | type casting machines |
| 7/06 | . for composing, justifying and casting complete  
| | lines of matrices, e.g. "monoline" machines |
| 7/08 | . operating with separate matrices for individual  
| | characters or spaces which are selected and  
| | assembled (details B41B 11/00) |
| 7/10 | . in which a line is composed of matrices and in  
| | which single types or spaces are cast, e.g. stringer  
| | type |
| 7/12 | . in which a justified line is composed of matrices  
| | and a type line is cast in one piece |
| 7/14 | . . the matrices being composed by hand |
| 7/16 | . . the lines of matrices being composed and  
| | justified by machine operation, e.g. line type  
| | casting machines, "intertype" machines |
| 7/18 | . . . the matrices being guided by wires, e.g. "typograph" machines |

| 9/00 | Details of, or accessories for, machines for  
| | mechanical composition using fixed combinations  
| | of matrices from which type is cast or moulded |
| 9/02 | . Combinations of matrices |
| 9/04 | . Carriers for combinations of matrices, e.g. blocks,  
| | cylinders, wheels, bars |
| 9/06 | . Mechanisms for effecting relative movements of  
| | matrix carriers and moulds for character or space  
| | selection |
| 9/08 | . Moulding or casting devices |
| 9/10 | . . Moulds |
| 9/12 | . . Justifying devices |
| 9/14 | . . Supply devices for molten metal |
| 9/16 | . Devices for handling type after casting |
| 9/18 | . . Ejector mechanisms |
| 9/20 | . . Trimming devices |
Machines or other mechanical apparatus for composing

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

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. slideable 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 fount
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
Photographic or photoelectronic composing devices

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
17/28 . . . on polygonal rods
17/30 . . . on a sheet of square or rectangular shape
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

21/00 Photographic composing machines
19/01 . having electron-beam tubes producing an image of at least one character which is photographed
19/02 . characters appearing on the screen in succession
19/04 . . . at the same place
19/06 . . . at different predetermined places
19/08 . . . with combinations of characters appearing on the screen at the same time
19/10 . . . in unbroken lines or columns
19/12 . . . in broken lines or columns
19/14 . . . and presenting a text of more than one line
19/16 . . Character carriers associated with electron-beam tubes

21/00 Common details of photographic composing machines of the kinds covered in groups B41B 17/00 and B41B 19/00
21/02 . Shutters in optical systems (in general G03B)
21/04 . . . for selecting characters
21/06 . . . for adjusting exposures
21/08 . . . Light sources; Devices associated therewith, e.g. control devices
21/10 . . . Single light sources
21/12 . . . Stroboscopic light sources
21/14 . . . Combinations of light sources
21/16 . . . Optical systems (shutters B41B 21/02; light sources B41B 21/08)
21/18 . . . defining a single optical path
21/20 . . . with means for moving stepwise
21/22 . . . with means for moving continuously
21/24 . . . defining multiple optical paths
21/26 . . . with means for selecting individual optical paths (means for moving the optical path B41B 17/12)
21/28 . . . with means for fount selection
21/30 . . . Electron-beam tubes or charactrons (in general H01J 31/30)
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)
21/34 . . . with positioning mechanisms
21/36 . . . for feeding films stepwise in line direction
21/38 . . . for feeding films continuously in line direction
21/40 . . . for line spacing
21/42 . . . for subscript or superscript notation
21/44 . . . adjustable for enlarging purposes

23/00 Auxiliary devices for modifying, mixing or correcting text or layout in connection with photographic or photoelectronic composing
23/02 . for mixing by line-by-line projection of parts of texts from a number of films on to another
23/04 . for facilitating hand correction of texts
23/06 . for correcting texts by removing incorrect lines from one film and splicing-in corrected lines from another film

Marking record carriers used for controlling composing machines; Control, indicating, or safety devices or systems for composing machines of various kinds or types

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)
25/10 . incorporating devices for line justification, e.g. counting and indicating devices for length of line
25/12 . . . comprising elements which circulate from and to magazines
25/14 . . . operating without space bands
25/16 . . . using a binary code for the width of the matrices
25/18 . . . combined with type-setting machines
25/20 . . . Auxiliary devices; Devices serving special purposes
25/22 . . . . . . for indicating length of line
25/24 . . . . . . for error correction
25/26 . . . . . . for changing the fount of type

27/00 Control, indicating, or safety devices or systems for composing machines of various kinds or types (computers in general G06F)
27/02 . . . Systems for controlling all operations
27/04 . . . . . . Keyboards
27/06 . . . . . . operable by input of recorded or stored information, e.g. on punched tapes
27/08 . . . . . . from several sources
27/10 . . . . . . with direct control of all operations by input of recorded or stored information
27/12 . . . . . . on tapes
27/14 . . . . . . on punched tapes
27/16 . . . . . . on magnetic tapes
27/18 . . . . . . from memory devices
27/20 . . . . . . from electromagnetic devices, e.g. memory matrices
27/22 . . . . . . from several sources
27/24 . . . . . . of several associated machines
27/26 . . . . . . with means for temporarily arresting input of recorded or stored information to introduce time delays
27/28 . . . . . . Control, indicating, or safety devices for individual operations or machine elements (in devices for supplying molten metal B41B 11/86, B41B 11/88; for light signals B41B 21/08)
27/30 . . . . . . for arresting or varying speed of one operation in response to failure or variation in speed of another operation
27/32 . . . . . . for line-justification operations
Marking record carriers used for controlling composing machines; Control, indicating, or safety devices or systems...

27/34 . . . without the use of space bands
27/36 . . . using electronic devices
27/38 . . . for measuring length of composed lines; for reading composed characters
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