

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](#))

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

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

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

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

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 photoelectric 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
- 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

19/00 Photoelectronic composing machines

- 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
- 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 . Shutter 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 31/00](#))
- 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 sources [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

- 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