

CPC**COOPERATIVE PATENT CLASSIFICATION****B41B****MACHINES OR ACCESSORIES FOR MAKING, SETTING, OR DISTRIBUTING TYPE; TYPE; PHOTOGRAPHIC OR PHOTOELECTRIC COMPOSING DEVICES** ([photographic devices in general G03](#))**B41B 1/00****Elements or appliances for hand composition; Chases, quoins, or galleys****B41B 1/02**

- . Printing letters; Type

B41B 1/025

- . . {for languages in which the latin alphabet is not used}

B41B 1/04

- . Quadrats or quads: Spaces or other justifiers

B41B 1/06

- . for special purposes

B41B 1/08

- . . for inserting latest news

B41B 1/10

- . . for inserting advertisements

B41B 1/12

- . . for setting musical notations

B41B 1/14

- . Composing rules, e.g. of brass

B41B 1/16

- . Reglets

B41B 1/18

- . Chases

B41B 1/20

- . Quoins or other binding means

B41B 1/22

- . Composing tables; Type cases; Storage cabinets; Washing or cleaning devices therefor

B41B 1/24

- . . Washing or cleaning devices

B41B 1/26

- . Composing or setting sticks

B41B 1/28

- . Galleys

Machines or other mechanical apparatus for composing**B41B 3/00****Apparatus for mechanical composition using prefabricated type, i.e. without casting equipment****B41B 3/02**

- . Mechanical composing machines using single types or logotypes and having slide magazines therefor, e.g. flat, cylindrical, radial, single magazines

B41B 3/04

- . Means for distributing type

B41B 3/06

- . Justifying means

B41B 5/00 **Devices for making type or lines** (for mechanical composition [B41B 7/00](#), [B41B 9/00](#), [B41B 11/00](#))

- B41B 5/02 . Matrices
- B41B 5/04 . Casting devices
- B41B 5/06 . . mechanically operated
- B41B 5/08 . Tools or auxiliaries
- B41B 5/10 . . for polishing or finishing type (polishing in general [B24B](#))
- B41B 5/12 . . for making type in the form of lines, e.g. by drawing or casting
- B41B 5/14 . . for cutting spaces

B41B 7/00 **Kinds or types of apparatus for mechanical composition in which the type is cast or moulded from matrices**

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

B41B 9/00 **Details of, or accessories for, machines for mechanical composition using fixed combinations of matrices from which type is cast or moulded**

- B41B 9/02 . Combinations of matrices
- B41B 9/04 . Carriers for combinations of matrices, e.g. blocks, cylinders, wheels, bars
- B41B 9/06 . Mechanisms for effecting relative movements of matrix carriers and moulds for character or space selection
- B41B 9/08 . Moulding or casting devices
- B41B 9/10 . . Moulds
- B41B 9/12 . . Justifying devices
- B41B 9/14 . . Supply devices for molten metal

- B41B 9/16 . Devices for handling type after casting
- B41B 9/18 . . Ejector mechanisms
- B41B 9/20 . . Trimming devices

- B41B 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**

- B41B 11/02 . Matrices

- B41B 11/04 . Space bands

- B41B 11/06 . Storage devices for matrices or space bands
- B41B 11/08 . . Magazines for matrices
- B41B 11/10 . . . for composing by hand
- B41B 11/12 . . . Attachment of magazines to machines; Magazine-selection or magazine-shift mechanisms ([controlling selection or shifting B41B 27/42](#))
- B41B 11/14 . . . with escapement devices
- B41B 11/16 . . Boxes for space bands; Escapements or guides for releasing space bands

- B41B 11/18 . Devices or arrangements for assembling matrices and space bands ([control devices therefor B41B 27/44](#))
- B41B 11/20 . . Assembler guide channels
- B41B 11/22 . . Assembler cover plates or framework
- B41B 11/24 . . Belt conveyers co-operating with assembler guides
- B41B 11/26 . . Devices for feeding or guiding space bands into association with matrices
- B41B 11/28 . . Star wheels or other stacking devices for matrices and space bands; Guides associated therewith
- B41B 11/30 . . Assembler elevators or associated mechanisms, e.g. braking devices, retaining pawls, line resistants, delivery slides
- B41B 11/32 . . Transfer channels or line-delivery carriages
- B41B 11/34 . . First elevators or associated mechanisms
- B41B 11/36 . . for presenting matrices or space bands directly to moulds

- B41B 11/38 . Devices for aligning or clamping lines of matrices and space bands
- B41B 11/40 . . Jaw clamps; Operating devices therefor
- B41B 11/42 . . . for quadding and centering
- B41B 11/44 . . . for justifying
- B41B 11/46 . . Aligning devices
- B41B 11/48 . . Cleaning devices for aligning jaws ([cleaning matrices B41B 11/96](#))
- B41B 11/50 . . Vice frames; Devices for releasing or locking

- B41B 11/52 . Moulding or casting devices or associated mechanisms
- B41B 11/54 . . Moulds; Liners therefor
- B41B 11/56 . . . Mould wheels; Slides or driving gear therefor

- B41B 11/58 with locking wedges
- B41B 11/60 adjustable or removable
- B41B 11/62 with interchangeable moulds
- B41B 11/64 with a series of moulds and mechanism for selecting individual moulds
- B41B 11/66 mounted on reciprocable carriages
- B41B 11/68 with provision for adjusting length or width of slot; with a plurality of slots
- B41B 11/70 for casting type-bars of special form, e.g. with projections
- B41B 11/72 . . . Devices for trimming type-bars; Cleaning devices for trimming knives; Ejectors for type-bars
- B41B 11/74 . . . Devices for supplying molten metal
- B41B 11/76 . . . Pots ([melting pots for casting stereotype plates B41D 3/20](#))
- B41B 11/78 movable towards and away from mould
- B41B 11/80 with stirrers or means for removing dross
- B41B 11/82 associated with mechanism for introducing metal in solid form
- B41B 11/84 Throats or mouthpieces; Wipers for mouthpieces
- B41B 11/86 Heaters for pots; Temperature-control devices
- B41B 11/88 . . . Pumps; Stop-motions or safety devices therefor
- B41B 11/90 . . . Arrangements or devices for distributing matrices or space bands after casting or moulding
- B41B 11/92 . . . Second elevators
- B41B 11/94 . . . Screw conveyers
- B41B 11/96 . . . Devices for cooling or cleaning matrices

Photographic or photoelectronic composing devices

B41B 13/00 Equipment specially adapted for photographing mounted characters or the like, e.g. advertisements, lines

- B41B 13/02 . . . the characters being composed or mounted by hand, and photographed simultaneously
- B41B 13/04 . . . with means for justifying
- B41B 13/06 by elastic or extensible type-line carriers
- B41B 13/08 by optical line correction
- B41B 13/10 . . . the characters being progressively photographed one by one

B41B 15/00 Photographic composing machines with movable character carriers for composing lines of characters prior to photography

- B41B 15/02 . . . with means for photographing complete lines
- B41B 15/04 . . . and with carriers for individual characters
- B41B 15/06 . . . and with carriers for complete sets of characters, e.g. slidable elongated members, rotary wheels

- B41B 15/08 . with means for photographing composed characters in succession
- B41B 15/10 . Details
- B41B 15/12 . . Character carriers; Cleaning devices therefor
- B41B 15/14 . . . with a single character, or with combinations of different styles of a single character
- B41B 15/16 . . . with combinations of different characters
- B41B 15/18 . . . with parts of characters for building up complex characters, e.g. oriental characters
- B41B 15/20 . . Devices for handling or storing character carriers
- B41B 15/22 . . . Magazines
- B41B 15/24 . . . for justifying purposes
- B41B 15/26 . . . for repeating a character
- B41B 15/28 . . Photographic devices ([in general G03](#))
- B41B 15/30 . . . Composing cameras
- B41B 15/32 . . . Film-handling mechanisms
- B41B 15/34 . . . Adjusting enlargement or register; Correcting exposure time
- B41B 17/00** **Photographic composing machines having fixed or movable character carriers and without means for composing lines prior to photography**
- B41B 17/02 . with manually-adjustable character carriers to enable characters to be photographed in succession
- B41B 17/04 . with a carrier for all characters in at least one font
- B41B 17/06 . . with an adjustable carrier
- B41B 17/08 . . with a fixed carrier
- B41B 17/10 . . with a continuously-movable carrier
- B41B 17/12 . . with means for moving the optical path for photographing characters, e.g. intermittently
- B41B 17/14 . . . continuously
- B41B 17/16 . . with means for moving the film in its plane for photographing characters in succession
- B41B 17/18 . Details
- B41B 17/20 . . Character carriers; Cleaning devices therefor
- B41B 17/22 . . . with a single character; with a single character in more than one style
- B41B 17/24 . . . with all characters
- B41B 17/26 on belts
- B41B 17/28 on polygonal rods
- B41B 17/30 on a sheet of square or rectangular shape
- B41B 17/32 on a flat disc
- B41B 17/34 on a cylinder
- B41B 17/36 . . . with selection indicators

- B41B 17/38 . . . with means for indicating the width
- B41B 17/40 in caliper form
- B41B 17/42 in coded form

B41B 19/00 Photoelectronic composing machines

- B41B 19/01 . having electron-beam tubes producing an image of at least one character which is photographed
- B41B 19/02 . . the characters appearing on the screen in succession
- B41B 19/04 . . . at the same place
- B41B 19/06 . . . at different predetermined places
- B41B 19/08 . . with combinations of characters appearing on the screen at the same time
- B41B 19/10 . . . in unbroken lines or columns
- B41B 19/12 . . . in broken lines or columns
- B41B 19/14 . . . and presenting a text of more than one line
- B41B 19/16 . . Character carriers associated with electron-beam tubes

B41B 21/00 Common details of photographic composing machines of the kinds covered in groups [B41B 17/00](#) and [B41B 19/00](#)

- B41B 21/02 . Shutters in optical systems ([in general G03B](#))
- B41B 21/04 . . for selecting characters
- B41B 21/06 . . for adjusting exposures
- B41B 21/08 . Light sources; Devices associated therewith, e.g. control devices
- B41B 21/10 . . Single light sources
- B41B 21/12 . . Stroboscopic light sources
- B41B 21/14 . . Combinations of light sources
- B41B 21/16 . Optical systems ([shutters B41B 21/02](#); [light sources B41B 21/08](#))
- B41B 21/18 . . defining a single optical path
- B41B 21/20 . . . with means for moving stepwise
- B41B 21/22 . . . with means for moving continuously
- B41B 21/24 . . defining multiple optical paths
- B41B 21/26 . . . with means for selecting individual optical paths ([means for moving the optical path B41B 17/12](#))
- B41B 21/28 . . . with means for fount selection
- B41B 21/30 . Electron-beam tubes or charactrons ([in general H01J 31/00](#))
- B41B 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](#))
- B41B 21/34 . . with positioning mechanisms
- B41B 21/36 . . . for feeding films stepwise in line direction

- B41B 21/38 . . . for feeding films continuously in line direction
- B41B 21/40 . . . for line spacing
- B41B 21/42 . . . for subscript or superscript notation
- B41B 21/44 . . adjustable for enlarging purposes

B41B 23/00 Auxiliary devices for modifying, mixing or correcting text or lay-out in connection with photographic or photoelectronic composing

- B41B 23/02 . for mixing by line-by-line projection of parts of texts from a number of films on to another
- B41B 23/04 . for facilitating hand correction of texts
- B41B 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

B41B 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](#))

- B41B 25/10 . incorporating devices for line justification, e.g. counting and indicating devices for length of line
- B41B 25/12 . . comprising elements which circulate from and to magazines
- B41B 25/14 . . operating without space bands
- B41B 25/16 . . using a binary code for the width of the matrices
- B41B 25/18 . combined with type-setting machines
- B41B 25/20 . Auxiliary devices; Devices serving special purposes
- B41B 25/22 . . for indicating length of line
- B41B 25/24 . . for error correction
- B41B 25/26 . . for changing the fount of type

B41B 27/00 Control, indicating, or safety devices or systems for composing machines of various kinds or types (computers in general [G06F](#))

- B41B 27/02 . Systems for controlling all operations
- B41B 27/04 . . Keyboards
- B41B 27/06 . . . operable by input of recorded or stored information, e.g. on punched tapes
- B41B 27/08 from several sources
- B41B 27/10 . . with direct control of all operations by input of recorded or stored information
- B41B 27/12 . . . on tapes

- B41B 27/14 on punched tapes
- B41B 27/16 on magnetic tapes
- B41B 27/18 . . . from memory devices
- B41B 27/20 from electromagnetic devices, e.g. memory matrices
- B41B 27/22 . . . from several sources
- B41B 27/24 . . of several associated machines
- B41B 27/26 . . with means for temporarily arresting input of recorded or stored information to introduce time delays

- B41B 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](#))
- B41B 27/30 . . for arresting or varying speed of one operation in response to failure or variation in speed of another operation
- B41B 27/32 . . for line-justification operations
- B41B 27/34 . . . without the use of space bands
- B41B 27/36 . . . using electronic devices
- B41B 27/38 . . for measuring length of composed lines; for reading composed characters
- B41B 27/40 . . for proof-printing operations
- B41B 27/41 . . Printing mechanisms coupled to typographical composing machines
- B41B 27/42 . . for controlling selection or shifting of matrix magazines
- B41B 27/44 . . for controlling assembly of matrices and space bands
- B41B 27/46 . . . for controlling insertion of space bands ([for line justification B41B 27/32](#))
- B41B 27/48 . . for deleting errors or inserting corrections ([means for cancelling or correcting errors in typewriters or selective printing mechanisms B41J 29/26](#))
- B41B 27/50 . . operated by coupled machines