

ECLA EUROPEAN CLASSIFICATION

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

B41B1/00 Elements or appliances for hand composition; Chases, quoins, or galleys

B41B1/02 . Printing letters; Type

B41B1/02B . . [N: for languages in which the latin alphabet is not used]

B41B1/04 . Quadrats or quads: Spaces or other justifiers

B41B1/06 . for special purposes

B41B1/08 . . for inserting latest news

B41B1/10 . . for inserting advertisements

B41B1/12 . . for setting musical notations

B41B1/14 . Composing rules, e.g. of brass

B41B1/16 . Reglets

B41B1/18 . Chases

B41B1/20 . Quoins or other binding means

B41B1/22 . Composing tables; Type cases; Storage cabinets; Washing or cleaning devices therefor

B41B1/24 . . Washing or cleaning devices

B41B1/26 . Composing or setting sticks

B41B1/28 . Galleys

Guide heading: **Machines or other mechanical apparatus for composing**

B41B3/00 Apparatus for mechanical composition using prefabricated type, i.e. without casting equipment

B41B3/02 . Mechanical composing machines using single types or logotypes and having slide magazines therefor, e.g. flat, cylindrical, radial, single magazines

B41B3/04 . Means for distributing type

B41B3/06 . Justifying means

B41B5/00 Devices for making type or lines ([for mechanical composition B41B7/00, B41B9/00, B41B11/00](#))

- B41B5/02 . Matrices
- B41B5/04 . Casting devices
- B41B5/06 . . mechanically operated
- B41B5/08 . Tools or auxiliaries
- B41B5/10 . . for polishing or finishing type ([polishing in general B24B](#))
- B41B5/12 . . for making type in the form of lines, e.g. by drawing or casting
- B41B5/14 . . for cutting spaces
- B41B7/00** **Kinds or types of apparatus for mechanical composition in which the type is cast or moulded from matrices**
- B41B7/02 . operating with fixed combinations of matrices ([details B41B9/00](#))
- B41B7/04 . . for casting individual characters or spaces, e.g. type casting machines
- B41B7/06 . . for composing, justifying and casting complete lines of matrices, e.g. "monoline" machines
- B41B7/08 . operating with separate matrices for individual characters or spaces which are selected and assembled ([details B41B11/00](#))
- B41B7/10 . . in which a line is composed of matrices and in which single types or spaces are cast, e.g. stringer type
- B41B7/12 . . in which a justified line is composed of matrices and a type line is cast in one piece
- B41B7/14 . . . the matrices being composed by hand
- B41B7/16 . . . the lines of matrices being composed and justified by machine operation, e.g. line type casting machines, "intertype" machines
- B41B7/18 the matrices being guided by wires, e.g. "typograph" machines
- B41B9/00** **Details of, or accessories for, machines for mechanical composition using fixed combinations of matrices from which type is cast or moulded**
- B41B9/02 . Combinations of matrices
- B41B9/04 . Carriers for combinations of matrices, e.g. blocks, cylinders, wheels, bars
- B41B9/06 . Mechanisms for effecting relative movements of matrix carriers and moulds for character or space selection
- B41B9/08 . Moulding or casting devices
- B41B9/10 . . Moulds
- B41B9/12 . . Justifying devices
- B41B9/14 . . Supply devices for molten metal
- B41B9/16 . Devices for handling type after casting
- B41B9/18 . . Ejector mechanisms
- B41B9/20 . . Trimming devices
- B41B11/00** **Details of, or accessories for, machines for mechanical composition using**

matrices for individual characters which are selected and assembled for type casting or moulding

- B41B11/02 . Matrices
- B41B11/04 . Space bands
- B41B11/06 . Storage devices for matrices or space bands
- B41B11/08 . . Magazines for matrices
- B41B11/10 . . . for composing by hand
- B41B11/12 . . . Attachment of magazines to machines; Magazine-selection or magazine-shift mechanisms ([controlling selection or shifting B41B27/42](#))
- B41B11/14 . . . with escapement devices
- B41B11/16 . . Boxes for space bands; Escapements or guides for releasing space bands
- B41B11/18 . Devices or arrangements for assembling matrices and space bands ([control devices therefor B41B27/44](#))
- B41B11/20 . . Assembler guide channels
- B41B11/22 . . Assembler cover plates or framework
- B41B11/24 . . Belt conveyers co-operating with assembler guides
- B41B11/26 . . Devices for feeding or guiding space bands into association with matrices
- B41B11/28 . . Star wheels or other stacking devices for matrices and space bands; Guides associated therewith
- B41B11/30 . . Assembler elevators or associated mechanisms, e.g. braking devices, retaining pawls, line resistants, delivery slides
- B41B11/32 . . Transfer channels or line-delivery carriages
- B41B11/34 . . First elevators or associated mechanisms
- B41B11/36 . . for presenting matrices or space bands directly to moulds
- B41B11/38 . Devices for aligning or clamping lines of matrices and space bands
- B41B11/40 . . Jaw clamps; Operating devices therefor
- B41B11/42 . . . for quadding and centering
- B41B11/44 . . . for justifying
- B41B11/46 . . Aligning devices
- B41B11/48 . . Cleaning devices for aligning jaws ([cleaning matrices B41B11/96](#))
- B41B11/50 . . Vice frames; Devices for releasing or locking
- B41B11/52 . Moulding or casting devices or associated mechanisms
- B41B11/54 . . Moulds; Liners therefor
- B41B11/56 . . . Mould wheels; Slides or driving gear therefor
- B41B11/58 with locking wedges
- B41B11/60 adjustable or removable
- B41B11/62 with interchangeable moulds
- B41B11/64 with a series of moulds and mechanism for selecting individual moulds
- B41B11/66 . . . mounted on reciprocable carriages

- B41B11/68 . . . with provision for adjusting length or width of slot; with a plurality of slots
- B41B11/70 . . . for casting type-bars of special form, e.g. with projections
- B41B11/72 . . Devices for trimming type-bars; Cleaning devices for trimming knives; Ejectors for type-bars
- B41B11/74 . . Devices for supplying molten metal
- B41B11/76 . . . Pots ([melting pots for casting stereotype plates B41D3/20](#))
- B41B11/78 movable towards and away from mould
- B41B11/80 with stirrers or means for removing dross
- B41B11/82 associated with mechanism for introducing metal in solid form
- B41B11/84 Throats or mouthpieces; Wipers for mouthpieces
- B41B11/86 Heaters for pots; Temperature-control devices
- B41B11/88 . . . Pumps; Stop-motions or safety devices therefor

- B41B11/90 . Arrangements or devices for distributing matrices or space bands after casting or moulding
- B41B11/92 . . Second elevators
- B41B11/94 . . Screw conveyers

- B41B11/96 . Devices for cooling or cleaning matrices

Guide heading: **Photographic or photoelectronic composing devices**

B41B13/00 **Equipment specially adapted for photographing mounted characters or the like, e.g. advertisements, lines**

- B41B13/02 . the characters being composed or mounted by hand, and photographed simultaneously
- B41B13/04 . . with means for justifying
- B41B13/06 . . . by elastic or extensible type-line carriers
- B41B13/08 . . . by optical line correction

- B41B13/10 . the characters being progressively photographed one by one

B41B15/00 **Photographic composing machines with movable character carriers for composing lines of characters prior to photography**

- B41B15/02 . with means for photographing complete lines
- B41B15/04 . . and with carriers for individual characters
- B41B15/06 . . and with carriers for complete sets of characters, e.g. slidable elongated members, rotary wheels

- B41B15/08 . with means for photographing composed characters in succession

- B41B15/10 . Details
- B41B15/12 . . Character carriers; Cleaning devices therefor
- B41B15/14 . . . with a single character, or with combinations of different styles of a single

- character
- B41B15/16 . . . with combinations of different characters
- B41B15/18 . . . with parts of characters for building up complex characters, e.g. oriental characters
- B41B15/20 . . Devices for handling or storing character carriers
- B41B15/22 . . . Magazines
- B41B15/24 . . . for justifying purposes
- B41B15/26 . . . for repeating a character
- B41B15/28 . . Photographic devices (in general [G03](#))
- B41B15/30 . . . Composing cameras
- B41B15/32 . . . Film-handling mechanisms [[C9611](#)]
- B41B15/34 . . . Adjusting enlargement or register; Correcting exposure time

- B41B17/00** **Photographic composing machines having fixed or movable character carriers and without means for composing lines prior to photography**

- B41B17/02 . with manually-adjustable character carriers to enable characters to be photographed in succession

- B41B17/04 . with a carrier for all characters in at least one font
- B41B17/06 . . with an adjustable carrier
- B41B17/08 . . with a fixed carrier
- B41B17/10 . . with a continuously-movable carrier
- B41B17/12 . . with means for moving the optical path for photographing characters, e.g. intermittently
- B41B17/14 . . . continuously
- B41B17/16 . . with means for moving the film in its plane for photographing characters in succession

- B41B17/18 . Details
- B41B17/20 . . Character carriers; Cleaning devices therefor
- B41B17/22 . . . with a single character; with a single character in more than one style
- B41B17/24 . . . with all characters
- B41B17/26 on belts
- B41B17/28 on polygonal rods
- B41B17/30 on a sheet of square or rectangular shape
- B41B17/32 on a flat disc
- B41B17/34 on a cylinder
- B41B17/36 . . . with selection indicators
- B41B17/38 . . . with means for indicating the width
- B41B17/40 in caliper form
- B41B17/42 in coded form

- B41B19/00** **Photoelectronic composing machines**

- B41B19/01 . having electron-beam tubes producing an image of at least one character which is photographed
- B41B19/02 . . the characters appearing on the screen in succession
- B41B19/04 . . . at the same place
- B41B19/06 . . . at different predetermined places
- B41B19/08 . . with combinations of characters appearing on the screen at the same time
- B41B19/10 . . . in unbroken lines or columns
- B41B19/12 . . . in broken lines or columns
- B41B19/14 . . . and presenting a text of more than one line
- B41B19/16 . . Character carriers associated with electron-beam tubes

B41B21/00 Common details of photographic composing machines of the kinds covered in groups [B41B17/00](#) and [B41B19/00](#)

- B41B21/02 . Shutters in optical systems ([in general G03B](#))
- B41B21/04 . . for selecting characters
- B41B21/06 . . for adjusting exposures
- B41B21/08 . Light sources; Devices associated therewith, e.g. control devices
- B41B21/10 . . Single light sources
- B41B21/12 . . Stroboscopic light sources
- B41B21/14 . . Combinations of light sources
- B41B21/16 . Optical systems ([shutters B41B21/02](#); [light sources B41B21/08](#))
- B41B21/18 . . defining a single optical path
- B41B21/20 . . . with means for moving stepwise
- B41B21/22 . . . with means for moving continuously
- B41B21/24 . . defining multiple optical paths
- B41B21/26 . . . with means for selecting individual optical paths ([means for moving the optical path B41B17/12](#))
- B41B21/28 . . . with means for fount selection
- B41B21/30 . Electron-beam tubes or charactrons ([in general H01J31/00](#))
- B41B21/32 . Film carriers; Film-conveying or positioning devices ([film-handling means in line-composing photographic devices B41B15/32](#); [machines with means for moving the film in its plane for photographing characters in succession B41B17/16](#))
- B41B21/34 . . with positioning mechanisms
- B41B21/36 . . . for feeding films stepwise in line direction
- B41B21/38 . . . for feeding films continuously in line direction
- B41B21/40 . . . for line spacing
- B41B21/42 . . . for subscript or superscript notation
- B41B21/44 . . adjustable for enlarging purposes

B41B23/00 Auxiliary devices for modifying, mixing or correcting text or lay-out in connection with photographic or photoelectronic composing

- B41B23/02 . for mixing by line-by-line projection of parts of texts from a number of films on to another
- B41B23/04 . for facilitating hand correction of texts
- B41B23/06 . for correcting texts by removing incorrect lines from one film and splicing-in corrected lines from another film

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

B41B25/00 **Apparatus specially adapted for preparation of record carriers for controlling composing machines** (for casting individual characters or spaces, e.g. in type casting machines [B41B7/04](#); methods for marking or reproducing record carriers having digital data thereon in general [G06K1/00](#))

- B41B25/10 . incorporating devices for line justification, e.g. counting and indicating devices for length of line
- B41B25/12 . . comprising elements which circulate from and to magazines
- B41B25/14 . . operating without space bands
- B41B25/16 . . using a binary code for the width of the matrices
- B41B25/18 . combined with type-setting machines
- B41B25/20 . Auxiliary devices; Devices serving special purposes
- B41B25/22 . . for indicating length of line
- B41B25/24 . . for error correction
- B41B25/26 . . for changing the fount of type

B41B27/00 **Control, indicating, or safety devices or systems for composing machines of various kinds or types** (computers in general [G06F](#))

- B41B27/02 . Systems for controlling all operations
- B41B27/04 . . Keyboards
- B41B27/06 . . . operable by input of recorded or stored information, e.g. on punched tapes
- B41B27/08 from several sources
- B41B27/10 . . with direct control of all operations by input of recorded or stored information
- B41B27/12 . . . on tapes
- B41B27/14 on punched tapes
- B41B27/16 on magnetic tapes
- B41B27/18 . . . from memory devices
- B41B27/20 from electromagnetic devices, e.g. memory matrices
- B41B27/22 . . . from several sources
- B41B27/24 . . of several associated machines
- B41B27/26 . . with means for temporarily arresting input of recorded or stored information to

introduce time delays

- B41B27/28 . Control, indicating, or safety devices for individual operations or machine elements (in devices for supplying molten metal [B41B11/86](#), [B41B11/88](#); for light sources [B41B21/08](#))
- B41B27/30 . . for arresting or varying speed of one operation in response to failure or variation in speed of another operation
- B41B27/32 . . for line-justification operations
- B41B27/34 . . . without the use of space bands
- B41B27/36 . . . using electronic devices
- B41B27/38 . . for measuring length of composed lines; for reading composed characters
- B41B27/40 . . for proof-printing operations
- B41B27/41 . . Printing mechanisms coupled to typographical composing machines
- B41B27/42 . . for controlling selection or shifting of matrix magazines
- B41B27/44 . . for controlling assembly of matrices and space bands
- B41B27/46 . . . for controlling insertion of space bands (for line justification [B41B27/32](#))
- B41B27/48 . . for deleting errors or inserting corrections (means for cancelling or correcting errors in typewriters or selective printing mechanisms [B41J29/26](#))
- B41B27/50 . . operated by coupled machines