

**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

**Guidance heading:** **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
<b>B41B 11/00</b>	<b>Details of, or accessories for, machines for mechanical composition using matrices for individual characters which are selected and assembled for type casting or moulding</b>
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 ( <a href="#">controlling selection or shifting B41B 27/42</a> )
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 ( <a href="#">control devices therefor B41B 27/44</a> )
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 ( <a href="#">cleaning matrices B41B 11/96</a> )
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

**Guidance heading:** **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

**Guidance heading:** 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