

**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 font 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