

## SECTION B — PERFORMING OPERATIONS; TRANSPORTING

## B41 PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS

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

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**1/00 Elements or appliances for hand composition; Chases, quoins, or galleys**

- 1/02 • Printing letters; Type
- 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

- 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

**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. "monotype" 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. "linotype", "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

**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

## B41B

- 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 conveyers 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 centring
  - 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 conveyers
  - 11/96 • Devices for cooling or cleaning matrices
- Photographic or photoelectronic 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 fount
- 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 [3]**
- 19/01 • having electron-beam tubes producing an image of at least one character which is photographed [3]
- 19/02 • • the characters appearing on the screen in succession [3]
- 19/04 • • • at the same place [3]
- 19/06 • • • at different predetermined places [3]
- 19/08 • • with combinations of characters appearing on the screen at the same time [3]
- 19/10 • • • in unbroken lines or columns [3]
- 19/12 • • • in broken lines or columns [3]
- 19/14 • • • and presenting a text of more than one line [3]
- 19/16 • • Character carriers associated with electron-beam tubes [3]
  
- 21/00 Common details of photographic composing machines of the kinds covered in groups B41B 17/00 and B41B 19/00**
- 21/02 • Shutters 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 "monotype" 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

**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)
- 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 of 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 (devices, non-fluid media or methods for cancelling or correcting errors in typewriters or selective printing mechanisms B41J 29/26)
- 27/50 • • operated by coupled machines