

(NOTES omitted)

**B41 PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS**

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

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

**Machines or other mechanical apparatus for composing**

**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 conveyors 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 centering
- 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 conveyors
- 11/96 . Devices for cooling or cleaning matrices

**Photographic or photoelectric 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 font
- 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

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

#### 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 type casting 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
- 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 or 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 ([means for cancelling or correcting errors in typewriters or selective printing mechanisms B41J 29/26](#))
- 27/50 . . operated by coupled machines