C. HOHMANN.

PRINTING DEVICE.

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1,100,183.

Patented June 16, 1914.

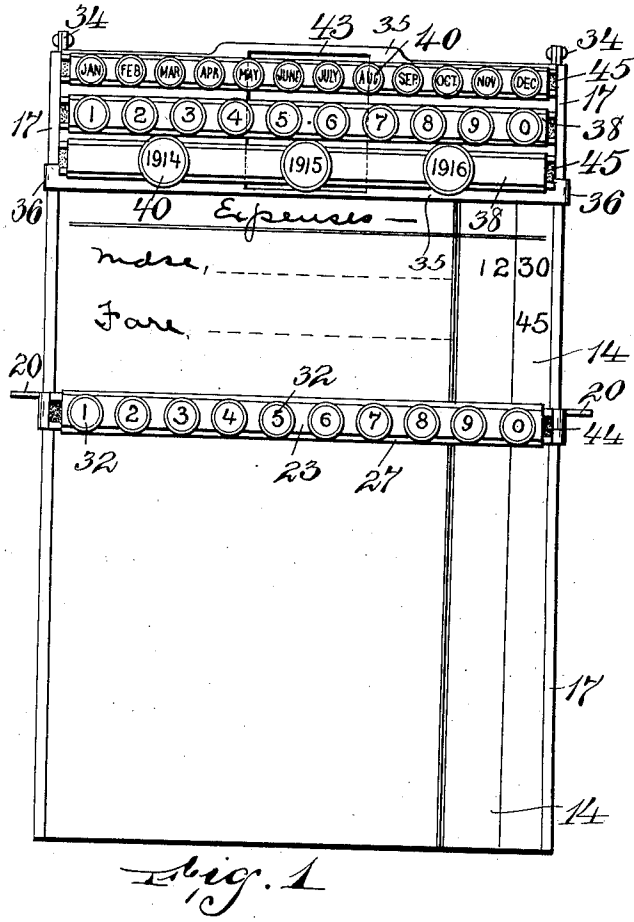


Fig. 1

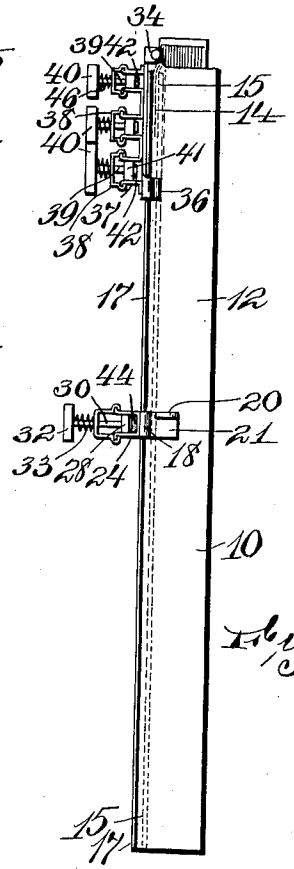


Fig. 2

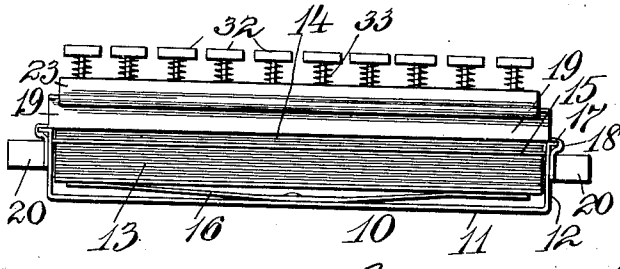


Fig. 3

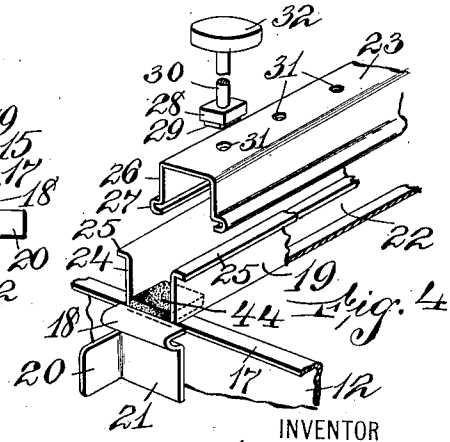


Fig. 4

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PRINTING DEVICE.

1,100,183. Specification of Letters Patent. Patented June 16, 1914.

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To all whom it may concern:

Be it known that I, CHARLES HOHMANN, a citizen of the United States, and a resident of Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Printing Devices, of which the following is a specification.

This invention relates to a printing device and is adapted to hold a sheet to be printed, being particularly constructed to contain a pad of sheets which can be replaced when it has been used up.

The device is particularly adapted for making out the memorandum of bills or checks such as are used in restaurants, but it will be understood, however, that it can be provided with type to make it adapted for keeping the score in games. In fact, it can be used for imprinting characters on any part of a sheet, this being accomplished by moving the type.

A further object of the invention is the providing of such printing device with suitable inking mechanism so that the type is constantly provided with a suitable supply of ink. The support for the pad also acts as a support for the printing means, the printing means being slidable along the pad on suitable guides at the sides of the support so that the whole surface of the pad is free to be printed on, the type support being movable transversely on a carriage, the carriage being movable longitudinally on the support so that any particular type or character can be quickly shifted to a desired place on the pad.

The invention further provides a tray with the sliding carriage and type support and also one having, at the top, a swinging support or base on which suitable printing mechanism is mounted, the printing mechanism at the top being adapted to be swung out of the way to permit the removal of a sheet when the printing of it is finished, the carriage carrying the type support being slidable to the bottom end of the support, if necessary, so that the removal of the sheet is easy.

The invention is illustrated in the accompanying drawing, in which is shown one form of device embodying the invention, it being evident, however, that slight changes can be made in the construction without departing from the scope of my invention, since the drawing is designed to show one form of the invention.

In said drawing, Figure 1 is a face view of my improved printing device. Fig. 2 is a side view of the device shown in Fig. 1. Fig. 3 is a bottom view of the device shown in Fig. 1, and Fig. 4 is a perspective view of a fragment of one end of the carriage and a part of the support, the parts being shown slightly separated to more clearly illustrate their construction.

The support 10 holds the paper that is to be printed and is usually made in the form of a tray with a bottom 11 and sides 12, the pad 13 being laid in the tray and being usually so disposed that its top sheet or sheets 14 are held against retreating by resting against a transverse plate 15, a few sheets of the pad being run over the top edge of the plate 15, as shown in dotted lines in the upper end of Fig. 2. The main portion of the pad is prevented from rattling by a suitable holding device, one form being illustrated in Fig. 3 consisting of a flat spring 16 secured to the bottom of the tray and holding the pad up against the bottom of the plate 15. The sides 12 of the tray are provided with guides 17, and over the guides are passed the clips 18 of the carriage 19. The carriage can thus be slid along the guides of the tray or support, this sliding be accomplished by finger-pieces 20 which project from the plate 21 which extends down from the clip 18, these finger-pieces being preferably arranged on the opposite ends of the carriage so that the carriage can be operated from each side of the tray. The bottom of the carriage is open as at 22, this opening extending substantially the length of the carriage whereby the paper sheet 14 can be printed on from one side to the other, since the opening 22 is for the passage of type. The carriage can be arranged to slide on the tray by other means, although the construction illustrated is the preferred form. On the carriage is a suitable type support 23, the tray and support having means connecting them whereby the type support 23 is movable longitudinally along the carriage, that is, in a direction transverse to the tray. The preferred means of making the sliding connection between the carriage and the tray is to provide the tray with upwardly extending side walls

24 terminating into outwardly turned flanges 25, the type support having the downwardly projecting sides 26 having the clips 27 extending over the flanges 25. Suitable type blocks 28 provided with type 29 are mounted on the ends of the stems 30, the stems fitting through openings 31 in the type support and having, on the top edges, the keys 32 which have characters thereon identifying whatever character happens to be on the type. Suitable springs can be used to hold the type in inoperative position, these spring means usually being provided by placing the springs 33 underneath the keys 32, the springs resting on the top of the type support 23. The top of the tray is provided with a hinged connection 34 which connects the top end of the tray with a base 35 which is in the form of a plate having spring fingers 36 at the lower end to snap over the guides 17. The base 35 is provided with upwardly extending walls 37 on which are mounted the type supporting slides 38. The slides 38 have mounted thereon the stems 39 of the keys 40, the stems having, on their inner ends, suitable type consisting preferably of the blocks 41 carrying the type 42. An opening 43 in the base plate provides for printing from the type onto the top sheet of paper, the perforation or opening shown in the drawing being arranged centrally, although it will be understood that it can be otherwise disposed if desired, and can be of the required shape and size.

In the carriage 19 are arranged inking devices which may be of any usual construction, but I prefer to use pads 44 at the ends of the slot or opening 22 so that when the type support is slid, the type is passed over this inking pad and the type is thus kept well inked. Suitable pads 45 are also arranged for the printing mechanism arranged on the base plate 35 so that this type is also kept inked, the type being arranged to pass lightly over the top surface of the inking pad, the type being kept in its inoperative position by means of springs 46. The sheet shown in the drawing on which the printing is being done is an expense list, and the numerals arranged at the right have been presumed to be printed by the type on the carriage 19. This form is shown only for the purpose of illustration, and any desired printing can be done on a sheet, as the carriage can be moved vertically on the guide 17, and the type support is movable longitudinally along the carriage so that all points on the pad are accessible, and if it is desired to run up near the top of the sheet, the plate 35 can be swung on its hinge 34 and the carriage can be moved to the top. If the sheet is to be removed, the base 35 is swung over the top of the pad and the carriage is slid down near the bottom of the tray and the sheet of paper can then be pulled up from the bottom and torn off at the top, as will be clearly understood. Other means of holding the paper can be devised and other type constructions can be utilized without departing from the scope of the invention.

The device is simple, is cheaply constructed, and the parts are easily separated for the purpose of repair or inspection.

Having thus described my invention, I claim:—

1. A printing device consisting of a tray for holding a pad, a plate for supporting the top sheet of the pad in printing position, a carriage sliding on the tray, and a type-carrying support slidable on the tray in a direction transverse to the sliding of the carriage.

2. A printing device comprising a tray for holding a pad, a plate for supporting the top sheet of the pad in printing position, a carriage bridging the support and slidable thereon, the carriage being opened at the bottom for the passage of type, a type support slidable on the carriage in a direction transverse to the direction of movement of the carriage, independently movable type in the type support, and independent means on each type for operating it.

3. A printing device comprising a support having guides thereon, a carriage traveling on the guides, printing mechanism arranged in the path of the carriage, means for supporting the printing mechanism so that it can be swung from the path of the carriage, and type mounted on the carriage.

4. A printing device comprising a support having guides thereon, a swinging structure at the top of the support, the structure having movable printing mechanism therein, a carriage sliding on the guides and movable into the space normally occupied by the swinging structure, and a sliding type support on the carriage.

5. A printing device comprising a support having guides thereon, a swinging structure at the top of the support, the structure having movable printing mechanism therein, a carriage sliding on the guides and movable into the space normally occupied by the swinging structure, a sliding type support on the carriage, and inking devices on the carriage.

6. A printing device comprising a support, a plate hinged at its top end to the top of the support and adapted to rest at its sides on the support and form a base, a series of parallel type supports sliding independently of each other transversely on the base, type on the type supports, the base having an opening through which the type can be operated, and means for operating the type.

7. A printing device comprising a sup-

port, a plate hinged at its top end to the top of the support and adapted to rest at its sides on the support and form a base, a series of parallel type supports sliding independently of each other transversely on the base, type on the type supports, the base having an opening through which the type can be operated, means for operating the type, and inking devices on the base at the sides of the opening, the inking devices being adapted to engage the type when the type supports are slid.

In testimony that I claim the foregoing, I have hereto set my hand, this 12th day of March, 1914.

CHARLES HOHMANN.

Witnesses:
WM. H. CAMFIELD,
M. A. JOHNSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."