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PAPER FEED GUIDE

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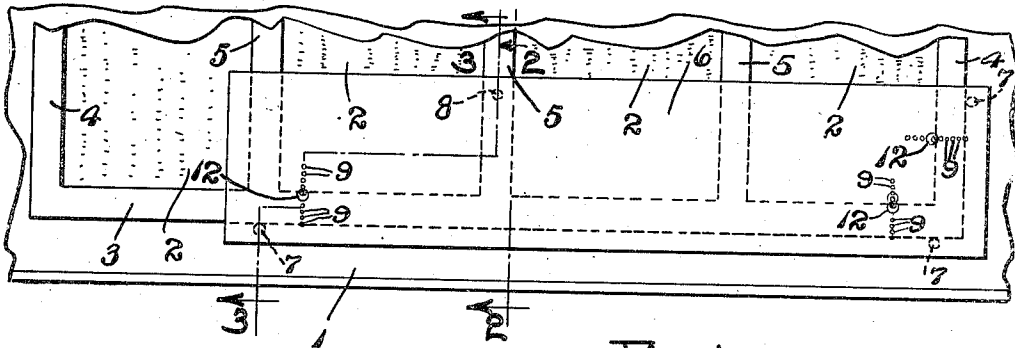


Fig. 1.

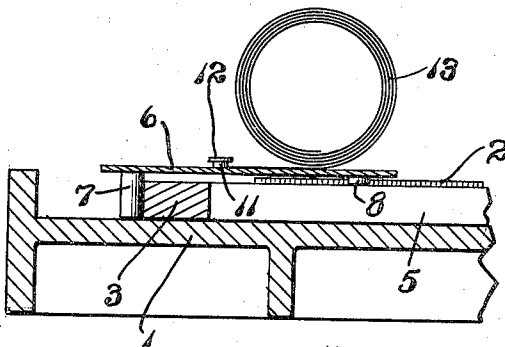


Fig. 2.

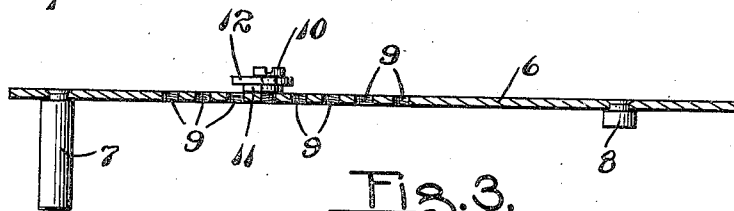


Fig. 3.

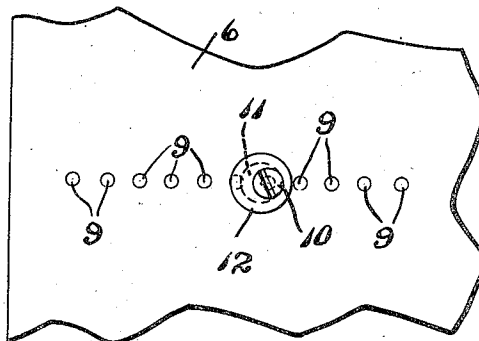


Fig. 4.

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PAPER FEED GUIDE

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7 Claims. (Cl. 101—407)

This invention relates to a paper guide. The invention is particularly useful in the matter of properly locating a sheet of paper upon which a proof is to be printed over the type and at the same time avoiding any smearing of the ink with which the type is covered on the paper.

In those cases where relatively large proof sheets are to be printed, for example, in the printing of directories, a large number of set ups of type for several pages of the directory are assembled in one chase and the problem of handling the large sheet of paper and properly locating it over the inked type and obtaining a good impression is a difficult one, so much so that in many cases, in order to obtain the proof sheet, it has been necessary to run the same in a regular printing press. This is a time consuming and expensive operation for the purpose of obtaining one or at least no more than a very few of the printed proof sheets. A proof sheet after it has been printed is examined for mistakes, the corrections are made in the set-up of the type and after the checking and correction has been accomplished the printing in large numbers is done in any of the usual printing presses used for the production of a great multiplicity of copies.

With my invention the guiding and proper location of a relatively large sheet of paper for proof printing purposes is accomplished in a very simple, practical and effective manner, without smudging or smearing ink from the type over the paper. It is a primary object and purpose of the invention to produce a paper guide by means of which such object and purpose is very effectively attained.

An understanding of the invention may be had from the following description, taken in connection with the accompanying drawing, in which,

Fig. 1 is a fragmentary plan view of a chase with the paper guide shown in position thereon.

Fig. 2 is a fragmentary enlarged vertical transverse section on the plane of line 2—2 of Fig. 1.

Fig. 3 is a transverse section through the paper guide itself substantially on the plane of the broken line 3—3 of Fig. 1, and

Fig. 4 is a fragmentary plan view of a portion of the guide.

Like reference characters refer to like parts in the different figures of the drawing.

In the construction shown a suitable supporting bed 1 of desired strength and rigidity is used upon which the chase with a plurality of type assemblies is located. As illustrated, the chase is of the kind for printing a plurality of pages at one

time, for example, pages of a book, directory or otherwise, the type for each page being indicated at 2 and located within a relatively large chase having sides 3, ends 4 and partitions 5 to divide the interior of the chase into separate compartments each to receive the type 2 for a single page.

The paper guide which I have produced includes an elongated rectangular plate 6 of flat metal to which, adjacent one side edge and near one end edge, studs 7 are secured and extend downwardly. The length of the pins is such that when the studs 7 adjacent one side edge of the plate are brought against a side 3 of the chase and a pin 7 adjacent one end of the plate brought against an end 4 thereof resting on the bed 1, the plate is held a short distance spaced above the upper surface of the type 2. For intermediate support of the plate shorter studs 8, one only being shown, are used connected to and depending below the plate 6 in a position to rest upon one or more of the intermediate partition or division bars 5 of the chase.

A plurality of threaded openings 9, extending in the direction of the length of the plate from adjacent one end thereof, and also extending inwardly transversely of the plate 6 from adjacent the outer edge thereof, as shown in Fig. 1, are made to receive stops against which the edges of the paper are adapted to bear. The stops consist of a screw 10, to enter threaded opening 9, an eccentric 11 through which the screw passes and a disk 12 above the eccentric through which the screw also passes, the eccentric being located against the upper side of the plate 6. The eccentric may be adjusted to different positions so as to compensate for the distances between the adjacent openings 9, and locate the edge of the paper at any desired positions and not be limited to positions which are apart in distance equal to the distance between the holes 9. Such stops in themselves are not new.

With the guide plates 6, located over the chase as shown in Figs. 1 and 2, the sheet of paper upon which the proof is to be printed is rolled into a roll 13. Its longitudinal edge is placed against the two stops which are located a short distance inward from the longitudinal edge of the plate 6, and its end edge is located against the other stop located a distance inward from the end of the plate 6. When thus located the paper is properly positioned relative to the type and is then unrolled so as to cover the entire upper surface of the type. The paper over the plate 6 may be held in position by the hand during the operation of unrolling. After the paper has been unrolled it may

then be held at the opposite edge portion in any suitable manner, and the guide consisting of the plate 6, the stops thereon and the supporting studs 7 and 8 withdrawn. The paper is then disposed over the inked type and in proper position to receive the inked impressions of the type. There is no shifting of the paper over the surface of the type with a consequent blurring or smearing of ink and the printing on the proof sheet is of a clear and accurate character.

The structure described and the method of use and operation of the same has proven very practical and useful in connection with the printing of relatively large proof sheets. The paper is accurately located without any danger of coming in contact with the ink on the type during the time that the location of the paper is taking place. It does not have to be shifted at all in the direction of the plane of the paper after it has once been unrolled and spread out.

The invention is defined in the appended claims.

What I desire to secure by Letters Patent is as follows:

1. The herein described method of locating paper over inked type which consists, in providing a chase in which the inked type is located, supporting a plate at one side of the chase in a position to extend partly over the chase and the type therein for the major portion of the length of the chase, providing stops at certain predetermined points in said chase rolling the paper into a roll and placing it on the plate with its outer end and one side edge thereof against the stops, unrolling the paper over the type, and withdrawing said plate.

2. The herein described method of positioning paper over inked type which consists, in horizontally positioning a chase in which the type is carried on a table or bed, placing an elongated plate horizontally over the chase and type at one side thereof, providing stops adjacent one end and also adjacent the outer side edge of the plate, rolling the paper into a roll and locating it on the plate with its outer end edge against the last mentioned stops and its side edge against the first stop adjacent the end of the plate, unrolling the paper so as to cover the type, and withdrawing said plate.

3. A device of the class described comprising,

an elongated plate, supporting studs fixed thereto adjacent its outer side edge and extending downwardly therefrom, a shorter supporting stud secured to the plate adjacent at its inner portion extending downwardly therefrom, and stops connected with the plate adjacent one end and also adjacent the outer longitudinal edge thereof, said stops extending upwardly from the plate a short distance.

4. In combination, a horizontal bed, a chase thereon having sides and ends and spaced partitions extending between the sides with type located in the spaces between said sides, ends and partitions, an elongated plate located over the chase lengthwise thereof for the major portion of the length of said chase, supporting studs connected to the plate and extending downwardly therefrom resting upon the bed and engaging against one end and one side of the chase, a shorter supporting stud connected to the plate at its underside resting upon a partition of the chase whereby the plate is supported above the upper surface of the type by said studs, and stops connected to the plate adjacent one end and also adjacent the outer edge thereof.

5. A device of the class described comprising, an elongated rectangular flat plate, studs connected to the plate and extending downwardly therefrom adjacent one end and at spaced apart points adjacent the outer edge thereof, a shorter stud connected to the plate at an inner portion and extending downwardly therefrom, and paper stops secured to and projecting above the plate adjacent the same end and adjacent the said side edge where said elongated studs are located.

6. A construction containing the elements in combination defined in claim 5, combined with means for adjustably mounting said stops on the plate to position the same at predetermined distances from the side and end edges of the plate.

7. The method of applying a relatively large sheet of paper to a relatively large type assembly carried in a chase which consists, in providing a supporting means at one side of the chase extending the major portion of the length thereof and partly over the type, rolling the paper into a roll and placing it on said support, locating the paper with its end edge in substantial parallelism to a side of the chase on said support, unrolling the paper over the type, and then withdrawing said support.

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