April 3, 1934. C. A. PUTNAM ET AL 1,953,632

TYPE HOLDER FOR MARKING MACHINES

Filed May 28, 1932

Fig. 1.

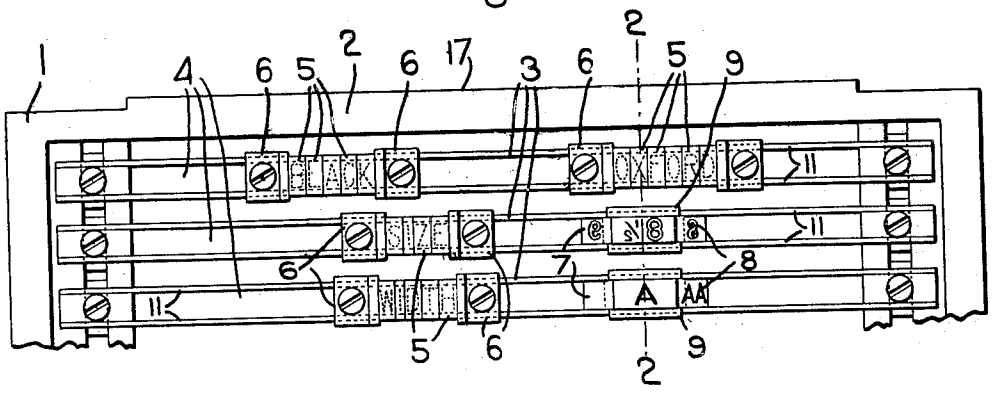


Fig. 2.

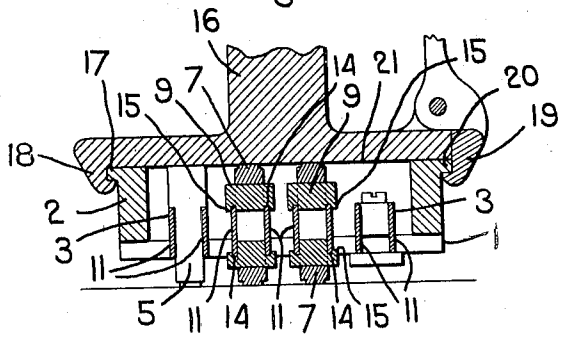


Fig. 3.

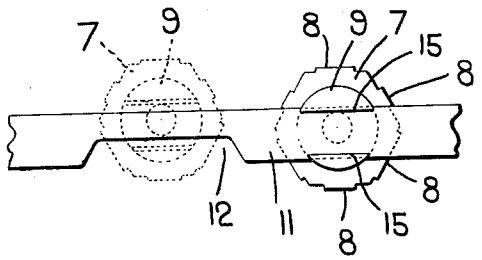
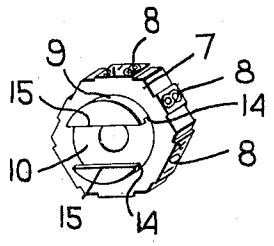


Fig. 4.



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TYPE HOLDER FOR MARKING MACHINES

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9 Claims. (Cl. 101—110)

This invention relates to type holders for marking machines of the type shown in Patents No. 1,687,951, October 16, 1928 and No. 1,590,851, June 29, 1926. Both of these patents show a type chase for marking machines which comprises a skeleton frame having a plurality of slotted type-supporting bars, each bar being adapted to support type members, the arrangement being such that the type members can be inserted into the type-receiving slots of the bars from the upper side of the chase.

A type chase of this character is frequently used on marking machines adapted to mark labels for shoe boxes, hosiery boxes and the like or box ends. In marking a lot of shoe boxes or hosiery boxes or labels for shoe boxes or hosiery boxes and the like it is frequently necessary to change one or more of the type characters because of a change desired in the label being printed. With the construction shown in the above-mentioned patents such change involves unlocking the type chase and then removing the type character or characters to be discarded and replacing them by other type characters.

An object of the present invention is to provide a type chase of this character which is provided with a rotatable type-carrying element carried by one or more of the slotted bars. Each rotatable element carries on its periphery a plurality of different characters and is so mounted in the slotted bar that it can be readily turned or adjusted to bring any one of its type characters into printing position.

This rotatable type element will be used for printing the type character which is subjected to change in different labels, such for instance as the size or the width of a shoe in a label for a shoe box or size of stocking in a hosiery box, and with this arrangement the change in the printed impression can be quickly and easily made by simply adjusting the rotatable type member in the type chase and without the necessity of removing a type element and replacing it by another one.

In order to give an understanding of the invention we have illustrated in the drawing a selected embodiment thereof which will now be described after which the novel features will be pointed out in the appended claims.

In the drawing:

Fig. 1 is a fragmentary plan view of a type chase having our improvements applied thereto;

Fig. 2 is a sectional view showing the type chase in a printing head, the section through the chase being taken on the line 2—2, Fig. 1;

Fig. 3 is a fragmentary view illustrating one of the rotatable type-carrying members;

Fig. 4 is a perspective view of one of the rotatable type-carrying members.

In the drawing, we have shown at 1 a type chase of the general character illustrated in the above-mentioned Patents No. 1,590,851 and No. 1,687,951. This type chase comprises a skeleton frame 2 which carries a plurality of slotted type-carrying bars 3, each bar having the type-receiving slot 4 extending longitudinally thereof. 5 indicates ordinary type elements such as shown in the above-mentioned patents which are placed in the slots 4 and which are shown as retained in position by retaining members 6 that are clamped to the bars. In addition to the ordinary type members 5, which may be used for printing the portions of the label that are fixed in character, we provide by the present invention one or more rotatable type elements which are designed to be adjustably supported by the slotted type-carrying bars 3 and each of which is formed with a plurality of type characters on its periphery, any one of which may be brought into printing position by rotating the rotatable member relative to the type bar. Such rotatable type-carrying element is designated 7 and it is shown as provided on its periphery with a plurality of type characters 8, six such type characters being illustrated in the rotatable element shown in the drawing.

This rotatable element operates in the slot 4 of one of the type bars 3, and it is rotatably mounted on a central or hub member 9 which is preferably adjustably secured to the type-carrying bar 3. The hub member 9 is shown as provided with a groove 10 in each end in which is received one of the strips 11 forming the sides of the slot 4. Each of the grooves 10 will preferably be formed with the undercut side walls 14 thereby forming lips 15 which overlie the strips 11 slightly.

Each member 7 is freely rotatable about its hub member and may be adjusted to bring any one of the printing characters 8 into printing position. The rotatable type member 7 is of a thickness corresponding to the width of the slot 4 and hence the type member is held by the sides 11 of the slot from movement transversely of the bar.

The hub 4 can be readily adjusted longitudinally of the slot into any desired position and it is intended that the frictional engagement of the hub portion with the bars will be sufficient

to retain it in any position in which it may be adjusted.

In order to provide for the removal of the rotatable type-carrying element in case the use of such rotatable element is not desired the strips 11 are shown as cut away at one point in their length as indicated at 12.

When the rotatable type-carrying member is adjusted so that its hub is opposite the cut-away portion 12 the remaining width of each of the side strips will be less than the width of the groove 10.

The strips 11 which bound the slot 4 of any bar 3 are resilient slightly so that when the type member is in a position opposite the cut-away portions 12 said strips can be forced apart sufficiently to allow the hub to be moved.

The type chase is herein shown as mounted in a printing head 16. The frame 2 of the type chase has a rib 17 on one side adapted to engage a lip 18 with which the printing head 16 is provided and the type chase is held in position by means of a latch 19 pivoted to the printing head and adapted to engage a rib 20 on the other side of the frame. The rotatable type member will preferably be of such a size that when the type chase is locked into the printing head as shown in Fig. 2 the upper surface of the rotatable member will engage the under surface 21 of the head thereby locking the rotatable member from rotative movement.

As disclosed in said above-mentioned patents the type members 5 are constructed so that when they are in the type case the upper end engages the face 21 of the printing head. While the printed impression is being made the printing head 16 applies pressure directly to the type elements whether in the form of type members 5 or in the form of rotatable members 7 by reason of the fact that the type members are in engagement with the under face 21.

In Figs. 1 and 2 the invention is shown as it might be employed in connection with a type chase carrying type designed for printing a label for a shoe box and in Fig. 1 four groups of type members 5 are shown and two of the rotatable type members 7, one of which has type characters on it to indicate different sizes of shoes, such as "8", "8½", etc. and the other having letters on it, such as "A", "AA", etc. indicating the widths.

In the printing of labels for shoe boxes it will be desirable to make a change in the type which prints the size and width of the shoe more often than in the type which indicates the style or color and the rotatable type member which is herein illustrated facilitates the making of such change in the type characters that are in printing position.

With the construction shown in Fig. 2 it would be necessary to unlock the type chase from the printing head in order to permit the type characters 7 to be adjusted.

While merely for the sake of illustration we have shown and described the invention as used in connection with a type chase designed to print labels for shoe boxes yet it will be understood that the invention is equally applicable for printing other kind of labels or for making a great variety of other printed impressions.

We claim.

1. A type chase comprising a skeleton frame, one or more slotted type-supporting bars carried thereby, a rotatable type member occupying the slot of one of said bars and means for connecting said rotatable member to the sides of the slotted bar to permit movement of said member longitudinally of the bar but prevent movement thereof in a vertical direction relative to the bar, said member being provided at its periphery with a plurality of type characters, any one of which may be brought into printing position by rotative movement of said member.

2. In a type holder, the combination with a slotted type-carrying bar, of a rotatable type member occupying the slot of said bar and provided on its periphery with a plurality of type characters, said member being rotatable about its axis to bring any member into printing position and means for removably connecting said rotatable type member to the bar, which means permits adjustment of said member longitudinally of the bar while preventing vertical movement of said member relative to the bar.

3. A type holder comprising a slotted type-supporting bar, a hub member occupying the slot of said bar and having its ends slidably interlocked with the sides of said bar, and a type member mounted on and rotatable about said hub, said type member having a plurality of type characters on its periphery.

4. A type holder comprising a slotted type-carrying bar, a hub member ocupying the slot of said bar and provided at its ends with grooves in which the sides of the bar are received and a type member rotatably mounted on the hub member and carrying on its periphery a plurality of type characters, any one of which may be brought into printing position by rotating the member on the hub.

5. A type holder comprising a slotted type-supporting bar, a hub member occupying the slot of said bar and being removably sustained thereby and having its ends slidably interlocked with the sides of said bar, and a type member mounted on and rotatable about said hub, said type member having a plurality of type characters on its periphery.

6. A type holder comprising a slotted type-supporting bar having resilient sides, a hub member occupying the slot of said bar and having its ends slidably interlocked with the sides of the bar, and a type member mounted on and rotatable about said hub, said type member having a plurality of type characters on its periphery, the resiliency of the sides of the bar permitting them to be spread sufficiently to provide for placing the hub in the slot or removing it therefrom.

7. A type holder comprising a slotted type-supporting bar having yieldable sides, a hub member occupying the slot of said bar, said hub member having a groove in each end to receive one of the sides of the slotted bar, and a type member rotatably mounted on the hub member and carrying on its periphery a plurality of type characters, any one of which may be brought into printing position by rotating the member on the hub, the yieldable nature of the sides of the bar permitting them to be spread sufficiently to allow the hub to be inserted into position in the slot or to be removed therefrom.

8. A type holder comprising a slotted type-supporting bar, a hub member occupying the slot of said bar and provided at each end with a groove to receive one of the sides of the bar, said hub also having at each end a lip to embrace the edge of the side of the bar, and a type member rotatably mounted on the hub and provided on its periphery with a plurality of type characters, any one of which may be brought into printing

position by rotative movement of the type member on the hub.

9. A type holder comprising a slotted type-carrying bar having yieldable sides, a hub member occupying the slot of said bar and provided at each end with a groove in which a side of the bar is received, said hub also having at each end a lip embracing the edge of said side and a type member rotatably mounted on the hub and carrying on its periphery a plurality of type characters, any one of which may be brought into printing position by rotating said type member on the hub, the sides of said bar being narrower at one point, whereby when the hub is adjusted into a position to register with said narrow portion said hub can be removed from the bar by separating the sides thereof sufficiently to withdraw them from the slots.

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