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K. J. BRAUN

2,508,593

TYPE CONTAINER MOUNTING MEANS

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Fig. 1

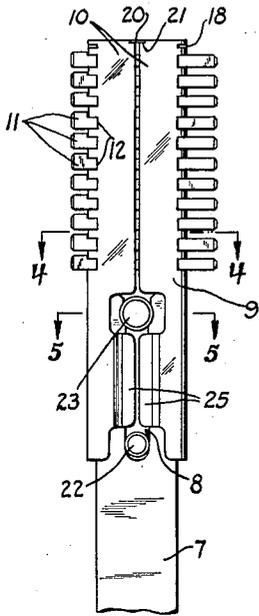


Fig. 2

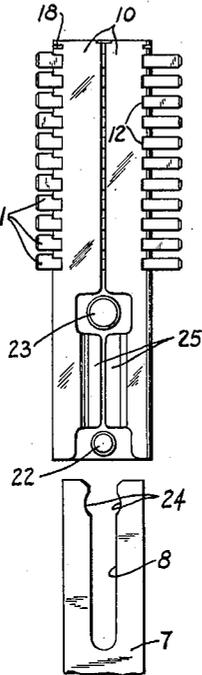


Fig. 3

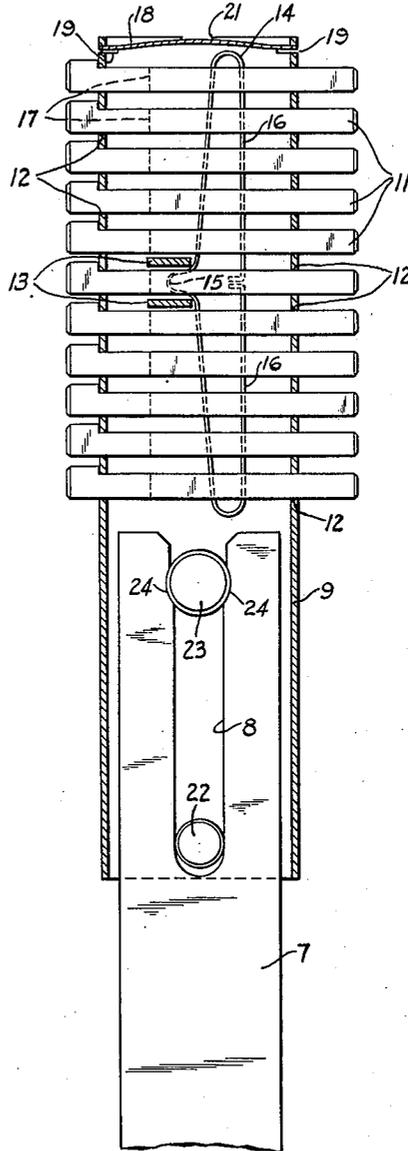


Fig. 4

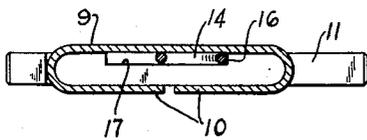


Fig. 5

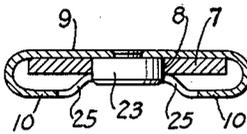
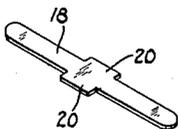


Fig. 6



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TYPE CONTAINER MOUNTING MEANS

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2 Claims. (Cl. 101-405)

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This invention relates to improvements in printing devices and has particular reference to a type bar for use in tabulating, accounting, printing and other similar kinds of machines.

An object of the invention is to provide an improved type bar of simple, practical and inexpensive construction wherein provision is made for detachably mounting the type container on the bar proper for ready removal therefrom.

Another object is to provide a removable closure for the type container which will facilitate the operations of mounting the type elements therein and their removal therefrom when replacements are required.

The above and other objects will appear more clearly from the following detailed description when taken in connection with the accompanying drawing which illustrates a preferred embodiment of the inventive idea.

In the drawing:

Fig. 1 is a fragmentary side elevation of a type bar and its container, showing the elements in assembled positions.

Fig. 2 is a similar view illustrating the container detached from the bar proper.

Fig. 3 is an enlarged vertical longitudinal section.

Fig. 4 is a transverse section on the line 4-4 of Fig. 1.

Fig. 5 is a similar section on the line 5-5 of Fig. 1, and

Fig. 6 is a perspective view of the removable closure for the type container.

The device of the present invention is especially suitable for use in record controlled tabulating machines wherein the type bars are operated to selectively position the individual type thereof in association with the platen of a printing mechanism, after which said type are actuated by a hammer or plunger to print the character thereof upon a record sheet.

In the drawing, the type bar 7 is fragmentarily shown and, in accordance with the present invention, its upper end is provided with an elongated bifurcation 8 which imparts a degree of resiliency to the portions forming said bifurcation that enables them to spread slightly and restore to normal as the type container 9 is attached to and removed from said bar in a manner to be more specifically described hereinafter.

The container 9 comprises an elongated body made of sheet metal the longitudinal edge portions 10 of which are bent over upon the central portion of the sheet to form an enclosure for the type 11 transversely mounted in the container for

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sliding movement therein and projecting through opposed openings 12 formed in the edges of the body. Spaced lugs 13 are formed intermediate the ends of the container and interiorly thereof between which one of the types 11 pass and said lugs are employed as an anchoring means for a single wire spring 14 having a loop 15 for insertion between said lugs. The spring is formed by bending the wire upon itself to provide two normally aligned end portions 16. When the type 11 and spring 14 are in position, the latter is disposed in elongated recesses 17 formed in edges of said type and the portions 16 of said spring contact and exert pressure against one end wall of each recess so as to yieldably retain each type in its normal position and restore it to said position after a printing operation.

When assembling the type in the container, the small ends thereof are inserted through the openings 12 and the spring 14 is then introduced through the open upper end of said container and adjusted to the position shown in Fig. 3 in which said spring retains the type within the container and, at the same time, permits them to slide therein when operated to print. After the parts are so assembled, a resilient closure member 18 comprising a strip of metal is placed in position to close said open end of the container. To do this, the ends of said closure are successively inserted into opposed slots 19 formed in the edges of the container contiguous to its open upper end and, in so doing, the lateral projections 20 of said closure, formed intermediate its ends, will engage in opposed notches 21 in the upper edges of the container body to prevent displacement of the closure. When in position, said member 18 is slightly bowed, as shown in Fig. 3, and this condition tends to retain the closure in its operative position from which it may be withdrawn whenever it becomes necessary to remove the spring 14 or one of the type 11.

The lower portion of the container body forms a channel for receiving the bifurcated upper end of the bar 7 when attaching the parts together. A small guide stud 22 is provided near the entrance to said channel and is of the same diameter as the width of the slot formed by said bifurcation so that the stud will engage the edges of said slot and thus prevent relative lateral movements of the container and bar when the same are connected. A larger locking stud 23, secured inwardly of and in line with the stud 22, enters the bifurcation or slot 8 as the bar 7 is inserted into position and, in so doing, initially spreads the portions forming said bifurcation after which said

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stud engages in the opposed detents 24 in said portions which then restore to normal so as to frictionally maintain the container and bar in connected relation. In order to retain the bar 7 firmly against the back of the container body, as shown in Fig. 5, the portions 10 are cut away and their edges provided with instruck flanges 25 whose free edges contact the adjacent face of said bar.

What is claimed is:

1. A printing device comprising a type container having edge portions overlapping a central portion to form a channel and said edge portions having instruck flanges constituting retaining elements, a stud in said channel extending from said central portion, and a type bar insertible into said channel for engagement by said flanges and having a bifurcated end formed with locking means for cooperating with said stud to releasably retain said container on said bar.

2. A printing device comprising a type container having edge portions overlying a central portion to form a channel having an entrance, and said edge portions having inturned flanges constituting retaining elements, a stud extending from said central portion and disposed in said channel adjacent said entrance, a second stud extending from said central portion in alignment with the first named stud, and a type bar having a bifurcated end insertible into said entrance and guided into said channel and into contact with said retaining elements by engagement of said

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first named stud with the opposed inner edges of said bifurcated end, said type bar also having detents in said edges for receiving the second named stud to releasably retain said container on said bar.

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