Dec. 14, 1926. 1,611,084

W. H. STOREY

HAND REST

Filed June 24 1925 2 Sheets-Sheet 1

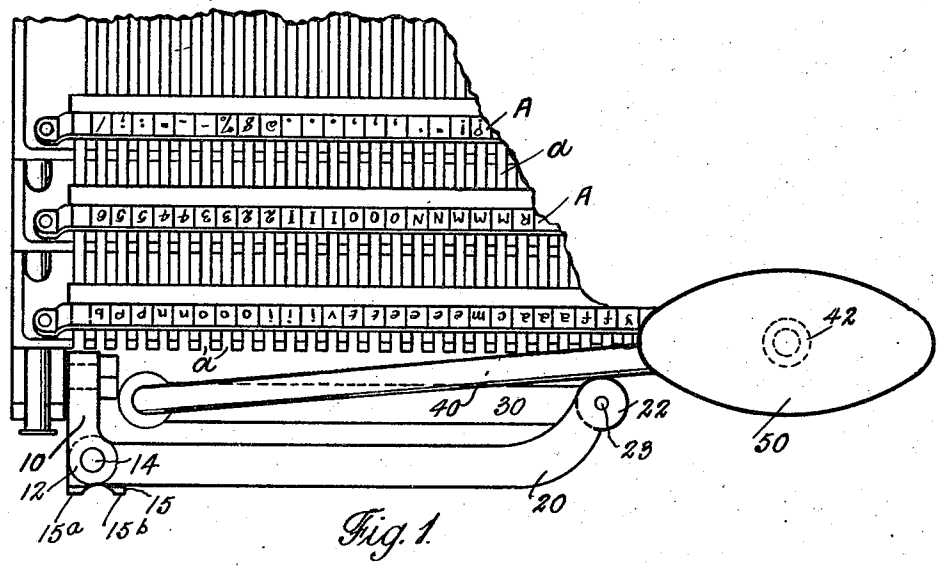


Fig. 1.

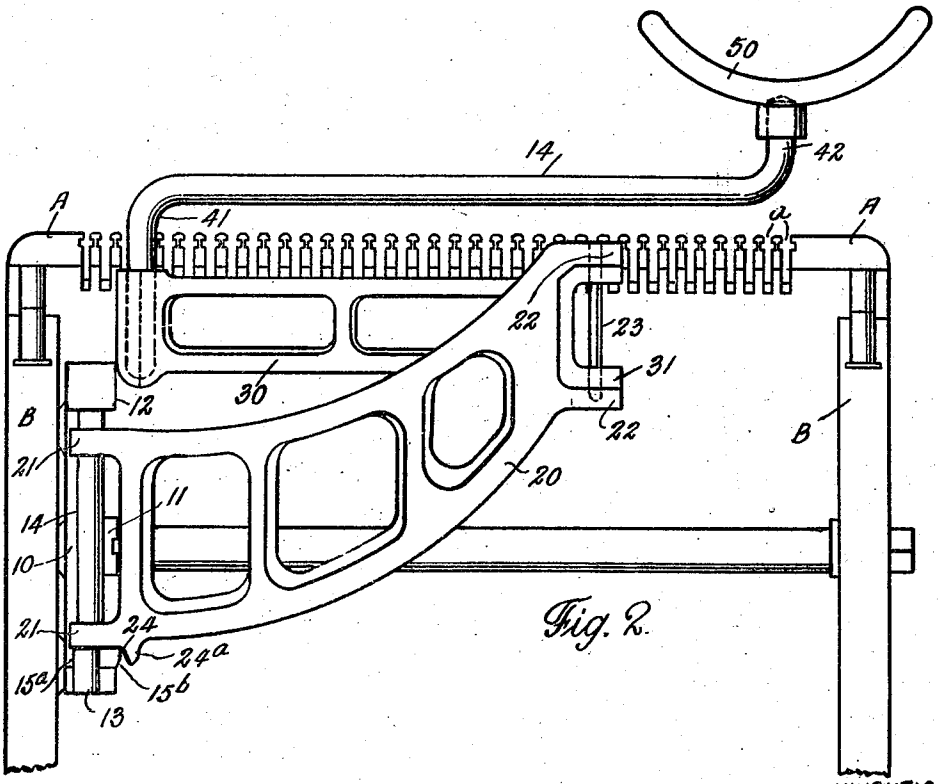


Fig. 2.

INVENTORS
William Henry Storey
By Richards & Geier
Attys

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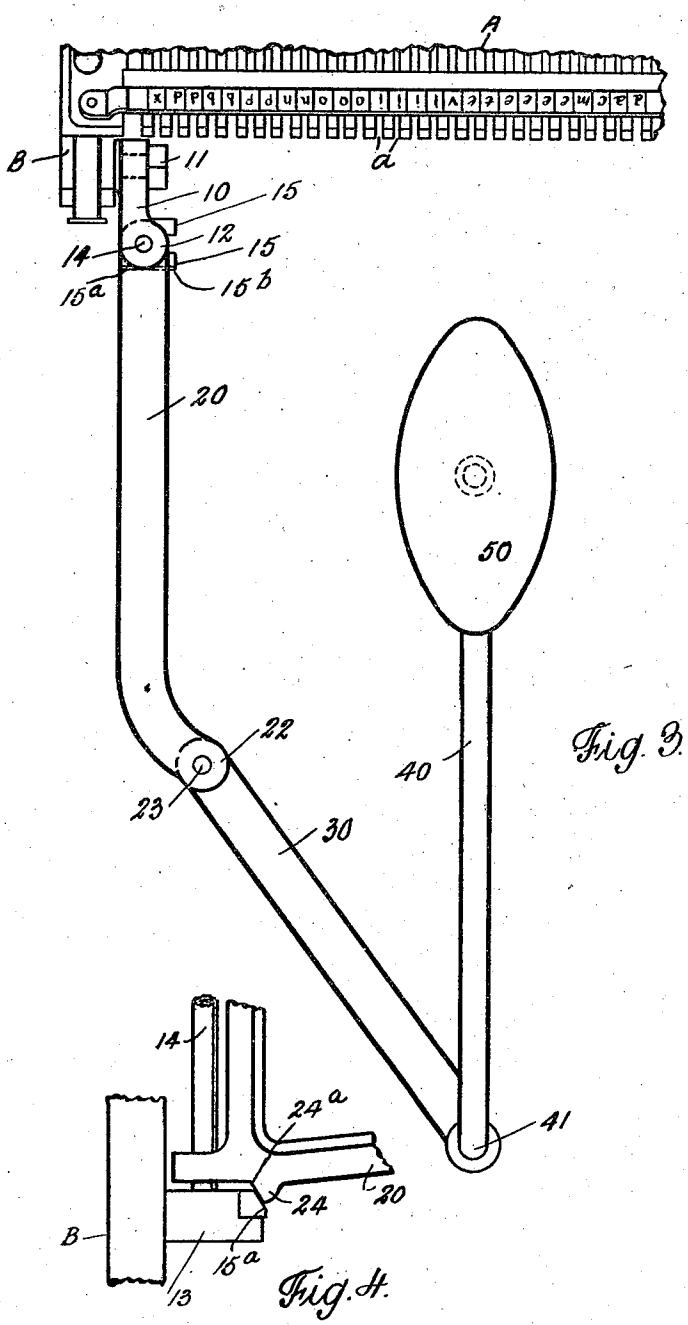


Fig. 3.

Fig. 4.

INVENTORS
William Henry Storey,
By Richardson Geisy Attys.

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UNITED STATES PATENT OFFICE.

WILLIAM HENRY STOREY, OF SOUTHEND-ON-SEA, ENGLAND.

HAND REST.

Application filed June 24, 1925. Serial No. 39,212.

The present invention relates to improvements in means for facilitating the distributing of type into magazines.

With magazines of known type, wherein characters are contained in type troughs or channels the type being fed into the channels at the top of the fount and extracted therefrom at the base, no adequate provision has yet been devised whereby support is afforded to the hand of the operator while distributing.

The operation of distributing type into the channels of the magazine entails much strain upon the operator owing to the fact that the arm and hand is required to perform a series of movements while the fingers are restrained by grasping the distributing stick, the arm meanwhile being in a raised position.

In connection with the magazine used with a printing machine such as above referred to an arm support has been employed which, though it relieved the arm by supporting its weight near the elbow did not support the wrist and moreover prevented rapid distribution of the type as the arm support was only free to rotate on a pivot forming a fixture of the magazine, and the arm had to be lifted from the rest to reach form one side to the other side of the magazine.

In other types of magazines even the provision of an arm rest has been lacking.

Now the object of the present invention is to provide means whereby the hand of the operator is supported in such a manner that the distributing stick can reach any channel at the top of the magazine without the necessity for removing the hand from its support.

The invention consists of a reacher or long arm constructed so that it moves automatically horizontally under the pressure of the hand of the operator to a position over any desired type channel of the magazine.

The invention further consists in constructing the reacher or long arm in such a manner that when not required for use it can be collapsed against the framework of the magazine or may be entirely removed therefrom.

The invention will now be described more particularly, reference being had to the accompanying drawings whereon:—

Fig. 1 is a plan view of the reacher or long arm in the position it assumes when collapsed against the back of the type magazine.

Fig. 2 shows a rear elevation of Fig. 1.

Fig. 3 is a plan view of the reacher or long arm in its extended or working position.

Fig. 4 is a detail view.

On the drawings part of a type magazine is shown comprising banks of type carriers A supported in an angular plane between the side frames B. The reacher or long arm for use in distributing type into the channels *a* of the carriers A comprises a bracket 10, an arm 20, a lever 30, a rod 40 and a hand support 50. The bracket 10 is rigidly secured to one of the side frames B as by screws 11 or like means, and the extremities of the bracket are formed with flanges 12 and 13 which project rearwardly from the side frame and are drilled and socketed respectively to receive a pivot pin 14 which is passed through the upper flange 12 and is housed in the socket of the lower flange 13. The arm 20 is preferably of curved outline so that when the arm is secured to the bracket 10 the free end of the arm is almost level with the top of the type carriers (see Fig. 2). The arm is formed with flanges 21 and 22 at its extremities, the flanges 21 being drilled through to receive the pivot pin 14 while the flanges 22 are drilled and socketed respectively to receive a pivot pin 23.

The lever 30 is formed with flanges 31 at one end which are drilled through, the lever being pivoted to the arm 20 by means of the pin 23. The other end of the lever 30 is bored out to form a socket for the pillar 41 of the rod 40 while the other end of the rod is fashioned with a seat or pillar 42 for the socketed hand support 50.

The flange 13 of the bracket 10 is fashioned with lugs 15, and a lug or lugs 24 is or are formed on the arm 20. As shown in Fig. 2, when the arm 20 is fitted between the flanges 12 and 13 of the bracket 10 and is pivotally supported therefrom by the pin 14, the arm can be raised until the surface of the upper flange 21 contacts against the under surface of the flange 12 of the bracket when it can be extended to the position shown in Fig. 3, in which it is used. In the positions shown in Figs. 1 and 2 the reacher or long arm is foldel against the back of the type magazine and is locked in this position as movement of the arm 20 is prevented by

the lug or lugs 24 abutting against the lugs 15 of the bracket 10. The lever 30 is also prevented from movement by the arm 20.

To bring the reacher or long arm into the position shown in Fig. 3, the arm 20 is raised until the lug or lugs 24 is or are clear of the lugs 15.

The arm 20, lever 30, rod 40 and support 50 are then turned at right angles to the plane of the type magazine and lowered until the tapers 24^a of lugs 24 of the arm 20 contact with the taper surfaces 15^a and 15^b (see detail view Fig. 4) on the socketed flange 13 of the bracket 10 and so hold the arm 20 in the position shown in Fig. 3, the taper surfaces 24^a and 15^a, 15^b preventing side play.

The lever 30 is then turned outward from the arm and the rod 40 is moved to bring the hand support 50 into the position for distributing type into the channels of the magazine.

When the reacher or long arm is in use, that is to say is at or about the position shown in Fig. 3, a type distributing stick, which may be of the nature described and shown in patent specification Serial No. 735,747 filed 4th September 1924, is grasped between a finger and thumb and the hand of the operator is rested on the support 50, the movements necessary for distributing the type into the different type channels being effected without raising the hand from the support so that the operator's arm is completely supported and rested.

To disconnect the reacher or long arm from the bracket 10, the pivot 14 is pulled out and the arm 20, lever 30 and rod 40 with hand support 50 can be folded up as a separate unit.

Having thus described my invention what I desire to secure by Letters Patent of the United States is as follows:—

1. A device for facilitating the distribution of type into the magazine used with type duplicating or like printing machines, including a magazine having a frame, a bracket capable of being attached to said frame, a pivot carried by said bracket, an arm carried by said pivot and movable longitudinally thereof and also to positions parallel with and in angular relation to the front of said magazine, cooperating means on the bracket and arm capable of engagement to fixedly mintain the arm in either of said positions and disengaged by a lifting and turning movement of said arm relative to said pivot to permit of a swinging movement of said arm to either of said positions, a lever connected to said arm and movable to an interposed position between the front of the magazine and said arm when the latter is parallel to said magazine to prevent, by contact with said arm, any pivotal movement of the lever relative thereto, a rod pivoted to said lever and capable of swinging movements toward and away from and over said magazine, and a hand rest pivotally supported on the free end of the rod.

2. A device for facilitating the distribution of type into the magazine used with type duplicating or like printing machines, including a bracket capable of being attached to the frame of said magazine, a pivot carried by said bracket, an arm carried by said pivot and movable longitudinally thereof and also to positions parallel with and in angular relation to the front of said magazine, cooperating means on the bracket and arm capable of engagement to fixedly maintain the arm in either of said positions, the said cooperating means comprising lugs formed on the bracket and another lug formed on the arm, a lever connected to said arm, a rod pivotally connected with said lever, and a hand rest mounted on the free end of said rod.

In testimony whereof I have affixed my signature.

WILLIAM HENRY STOREY.