Dec. 15, 1931. R. W. LLOYD 1,836,856

ATTACHMENT FOR PRINTING MACHINES

Filed Oct. 9, 1929

Fig. 1.

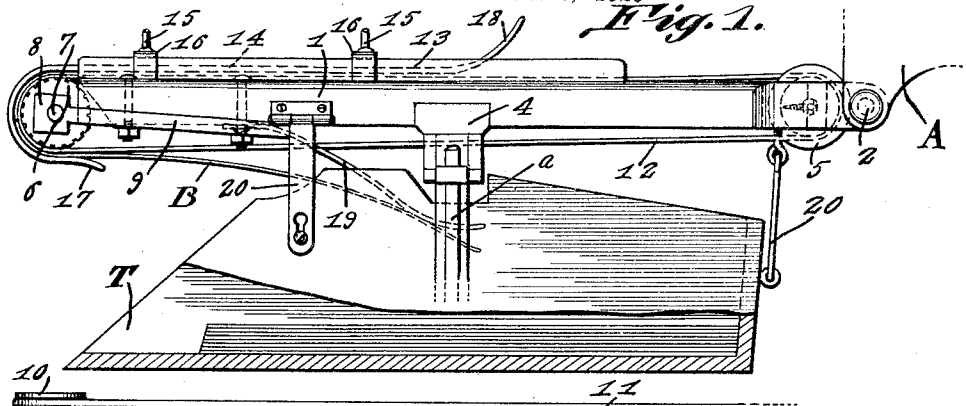


Fig. 2.

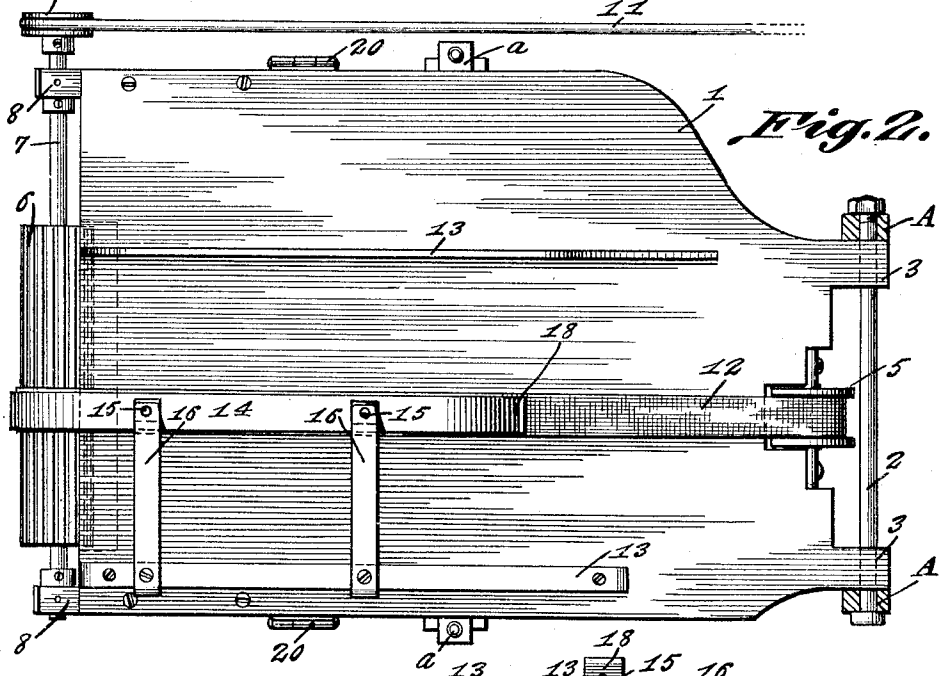
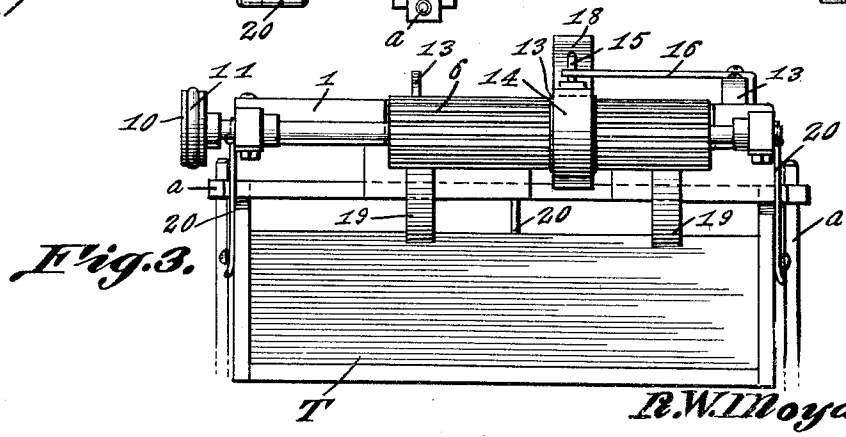


Fig. 3.



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UNITED STATES PATENT OFFICE

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ATTACHMENT FOR PRINTING MACHINES

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This invention relates to an attachment for a printing machine, such as an addressograph machine, the general object of the invention being to provide means for taking the sheets or other printing matter coming from the machine and conveying the sheets to a receptacle where the sheets are placed in a pile with the first sheet on the bottom of the pile, the second sheet on the first sheet and so on, so that the sheets are piled in the order in which they come from the machine, with the first sheet lowermost so that it is simply necessary to remove the pile from the receptacle and turn the pile over to have the sheets in the pile arranged in the order which they came from the machine.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is an elevation with parts in section, showing the device attached to parts of the printing machine.

Figure 2 is a top plan view of Figure 1.

Figure 3 is a front end view.

In these views, the numeral 1 indicates a plate or platform which is pivoted to a front part of the machine, a part of which is shown at A by a rod 2 which passes through ears 3 formed in the rear part of the plate and the plate is also supported from the uprights *a* of the machine by the brackets 4 which are attached to the side edges of the plate intermediate its ends and are adjustably connected with the uprights.

A small pulley 5 is rotatably arranged at the rear end of the plate and an elongated roller 6 is rotatably arranged at the front end thereof. This roller is preferably formed of rubber and is corrugated, as shown. The roller is attached to a shaft 7 which has its ends journaled in the enlarged ends 8 of the arms 9 attached to the front part of the plate at the bottom thereof. One end of the shaft 6 is extended and has a small pulley 10 thereon which is connected by a belt 11 to a rotary part of the machine so that the roller 6 will be driven from the machine. An endless belt 12 passes over the pulley 5 and the roller 6 and has its upper reach passing over the plate and its under reach under the plate.

Parallel guiding strips 13 are attached to the upper face of the plate and one of these strips may be adjustable so that the space between the guiding strips can be varied. A narrow strip 14 of metal has pins 15 thereon which extend through holes formed in the inner ends of the fingers 16 which have their other ends connected with one of the guiding strips 13. The front end of this strip 14 is of hook shape, as shown at 17, and embraces the roller 6 and its other end is curved upwardly, as shown at 18. This strip 14 is arranged above the upper reach of the belt and normally rests upon the same under the action of gravity. Spring fingers 19 are attached to the under side of the plate 1 and extend downwardly and rearwardly, as shown in Figure 1.

From the foregoing it will be seen that the sheets of paper or other printed matter coming from the machine will drop upon the rear part of the board 1 and be carried by the belt 12 under the curved end 18 of the strip 14 which acts to press the sheet against the belt and causes it to move along with the belt. As the front edge of the paper engages the roller 6, it will be curved and caused to pass around the roller and under the hook 17 so that the sheet is reversed and then as the sheet, which is shown at B, engages the spring fingers 19, it will be directed into a tray T suspended from the plate 1 by the latch members 20. Thus the sheets are deposited in the tray, one upon another, with their printed faces downwardly and in the order in which they come from the machine. Thus it is simply necessary to remove the pile from the tray and turn the pile over to have the sheets arranged in the same order as that in which they come from the machine.

It is thought from the foregoing descrip-

tion that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. An attachment for a printing machine comprising a platform for receiving the sheets from the printing machine, an endless belt, rollers at the ends of the platform over which the belt passes, a strip supported for vertical movement over a portion of the belt for pressing the sheets upon the belt, said strip having a hooked end passing around the front roller and causing the sheets to be carried around the roller and thus reversed, a tray under the platform and fingers for causing the sheets leaving the front roller to be deposited in a pile in the tray.

2. An attachment for a printing machine comprising a platform adjustably connected with the printing machine, a pulley at the inner end of the platform, a corrugated roller at the front end thereof, a belt passing around the pulley and roller, means for driving the roller from any convenient part of a printing machine, a hooked strip having an upwardly curved inner end, means for supporting the strip for vertical movement whereby the weight of the strip will press the sheets coming from the printing machine against the belt and thus cause the sheets to be fed to the front roller by the belt, the hooked end of the strip causing the sheets to pass around the roller and thus be reversed, a tray under the platform and spring fingers for guiding the sheets as they come from the front roller into a pile in the tray.

3. An attachment for a printing machine comprising a platform for receiving the sheets from the machine, an endless belt, rollers at the ends of the platform over which the belt passes and a trip supported for vertical movement over a portion of the belt for pressing the sheets upon the belt, said strip having a hooked end passing around the front roller and causing the sheets to be carried around the roller and thus reversed.

In testimony whereof I affix my signature.

RAYMOND W. LLOYD.