Sept. 23, 1941. J. ETTL 2,256,640

LABEL PASTING MACHINE AND THE LIKE

Filed Jan. 4, 1940

Fig. 1.

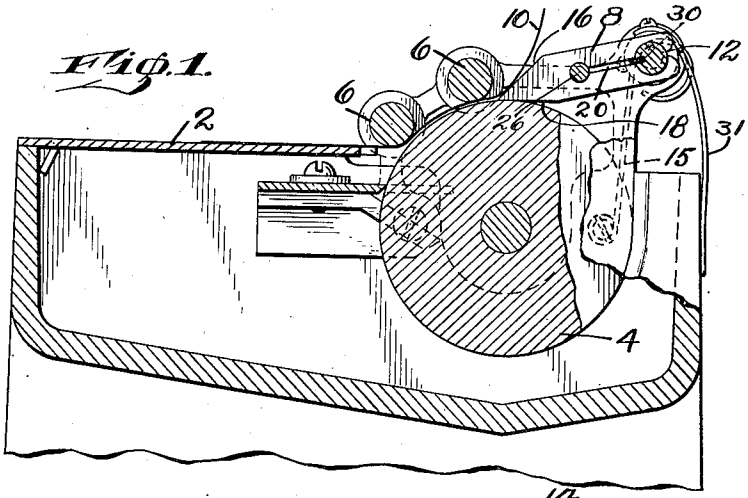


Fig. 2.

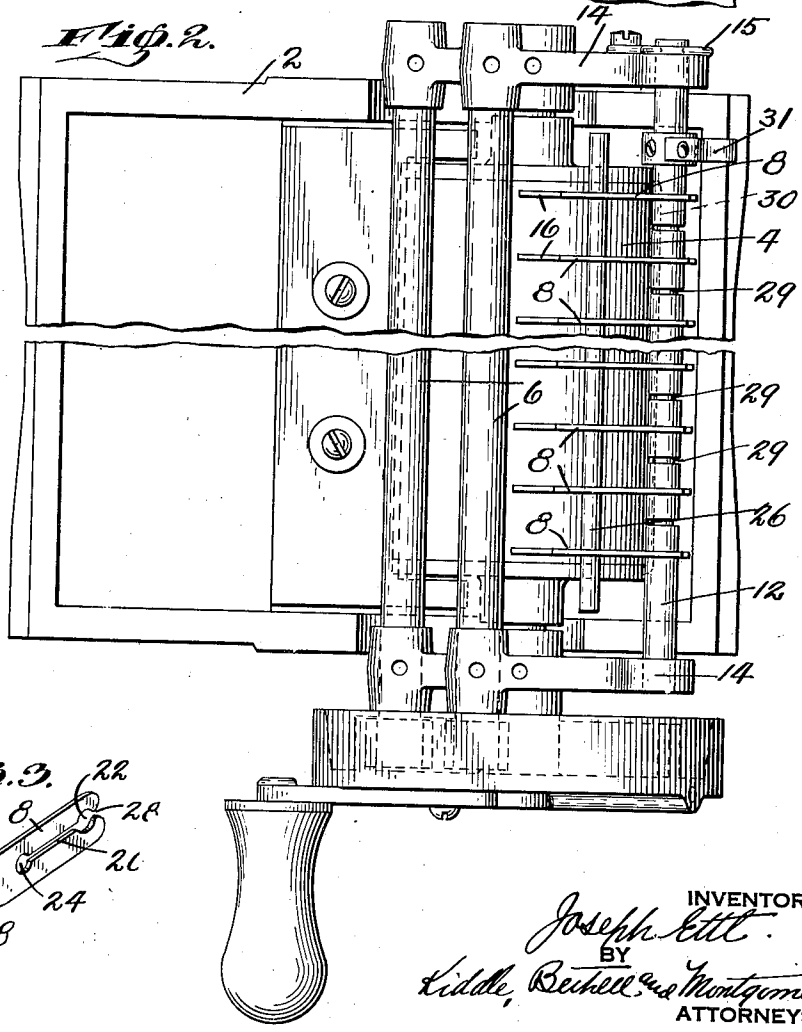


Fig. 3.

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LABEL PASTING MACHINE AND THE LIKE

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7 Claims. (Cl. 91—58)

This invention relates to label pasting machines, and one of its objects is the provision of stripper fingers and a mount therefor both of new and novel construction.

More specifically the present invention provides a construction wherein the stripper fingers are readily and accurately mounted on their supporting bar and can be removed independently for replacement and repair.

In the accompanying drawing which illustrates one embodiment of my invention:

Fig. 1 is a sectional side elevational view showing my invention;

Fig. 2 is a plan view; and

Fig. 3 is a view of one of the stripper fingers.

Referring to the drawing in detail: 2 designates the paste pot of the machine, 4 the paste-applying roller and 6 the presser rollers. The paper or other stock to which paste is to be applied is fed between the paste-applying roller 4 and the presser rollers 6 and is stripped off the paste roller by the stripper fingers 8 which are of new and novel construction. The stock has been designated 10.

The machine has been shown as hand driven. It may be motor driven.

As seen from Figs. 1 and 3 of the drawing, the stripper fingers 8 are elongated thin metal plates of phosphorous bronze or other suitable somewhat elastic metal. The fingers are mounted on stripper finger bar 12 carried in two brackets 14 provided for that purpose at each side of the machine. The bar 12 is held against endwise movement by member 15, one end of which is secured to the machine frame, its free end being bent around the finger bar and lying in a groove provided for that purpose in the bar.

The fingers 8 which are thin metal strips, as above pointed out, are mounted on edge on the finger bar. The forward or free end of each finger is tapered, as shown at 16 and 18, while the rear end is provided with an open-ended slot 20 extending lengthwise of the finger and of such dimensions as will permit the fingers to be slipped endwise individually over the finger bar. In the embodiment illustrated the open end of the slot is provided with a transverse bore 22 for receiving the finger bar 12, while, if desired, I provide a transverse bore 24 which receives a stripper finger guide bar 26. This guide bar merely passes through the bank or row of fingers.

The bore 22 is broken through at its outer edge, as seen at 28, so that the fingers may be slipped endwise over the finger bar at the circumferentially extending grooves 29, provided for this purpose at desired intervals along the bar. The bar 12 is also provided with a key 30 extending lengthwise thereof. When the fingers are slipped into place at the grooves 29 of the finger bar, the slots 20 spread until the bar 12 enters the bores 22 whereupon the slots 20 will close, thereby to hold the fingers upon the bar. The key 30 is so located that with the fingers in position the key will lie in the slots 20, as seen in Fig. 1, thereby to prevent rotary movement of the fingers on the bar.

Attached to the finger bar 12 and having its end bearing against the machine frame is a spring member 31. This spring is for the purpose of pressing the fingers 8 upon the face of the roller 4 with the desired pressure, and inasmuch as the fingers are held against rotation on the finger bar, it will be appreciated that the fingers will be pressed against the face of the roller 4 with uniform pressure to effect the desired stripping of material from the roller without tearing the same.

It will be appreciated from all of the foregoing that my invention provides a very simple and yet effective strip finger construction, whereby the fingers can be removed individually or shifted, as desired on the finger bar without the necessity of even dismounting the finger bar.

It will be appreciated, furthermore, that the key 30 will hold the fingers against vertical or edgewise movement relatively to each other, which insures their accurate alignment, and this fact taken in connection with the spring 31 provides for insuring uniform pressure of the fingers upon the roll 4 entirely across the roll so that the stock will be stripped from the roll in the most effective manner.

It is to be understood that changes may be made in the details of construction and arrangement of parts hereinabove described within the purview of my invention.

What I claim is:

1. In a label pasting machine, a stripper finger bar provided at intervals with circumferentially extending grooves, a plurality of stripper fingers, each comprising a flat spring metal strip having an open ended slot in its rear end, the width of the open end of the slot being less than the diameter of the finger bar at said grooves so that the ends of the fingers must be spread in order that they may be slipped endwise over the finger bar at the grooves.

2. In a label pasting machine, a stripper finger bar, a plurality of independently removable stripper fingers mounted on said bar, each finger

being of spring metal and provided at the end adjacent the finger bar with an open ended slot, the width of said slot at its extreme end being less than the diameter of the finger bar so that the ends of the fingers must be sprung open to enable the finger to be slipped endwise over the bar and a key extending lengthwise of the bar and engaging said slots for preventing rotation of the fingers on the bar relatively to each other.

3. In a label pasting machine, a stripper finger bar provided at intervals with circumferential grooves, a plurality of slotted stripper fingers encircling the finger bar at said grooves, and a key set into the bar and extending lengthwise thereof, said key entering the slots in the stripper fingers to prevent their rotation on the bar while permitting the fingers to be moved endwise to remove them from the bar.

4. In a label pasting machine, a stripper finger bar provided at intervals with circumferential grooves, a plurality of slotted stripper fingers encircling the finger bar at said grooves, a key set into and extending lengthwise of the said finger bar, said key engaging the slots in the stripper fingers, and a guide bar passing through the fingers at the ends of the slots remote from the finger bar.

5. In a label pasting machine, a stripper finger bar provided with a plurality of grooves extending circumferentially thereof, a key set into the bar, said key extending into said grooves, slotted stripper fingers encircling the bar at said grooves and held thereon by the elasticity of the metal of the fingers, said key extending into the slots of the fingers whereby the fingers are held against rotation on the bar, a paste applying roller, and a spring having one end secured to the finger bar and its other end bearing against the frame of the machine for pressing the fingers against the roller with uniform pressure.

6. A stripper finger for label pasting machines and the like, said finger comprising a flat metal member having a longitudinally extending slot open ended at the rear end of the finger for the reception of a finger bar, said finger being of spring metal, and the width of the slot at the open end being less than the diameter of the finger bar.

7. A stripper finger for label pasting machines and the like, said finger comprising a flat metal member provided with a longitudinally extending open ended slot, said slot being enlarged intermediate its ends for the reception of a finger bar, said finger being of elastic metal whereby the slot can be sprung open to permit endwise movement of the finger relative to the finger bar until the bar has entered the enlarged portion of the slot.

JOSEPH ETTL.