Dec. 3, 1929. W. A. SAATMAN 1,737,616

PICKER HOLDER

Filed Feb. 23, 1928

Fig. 1.

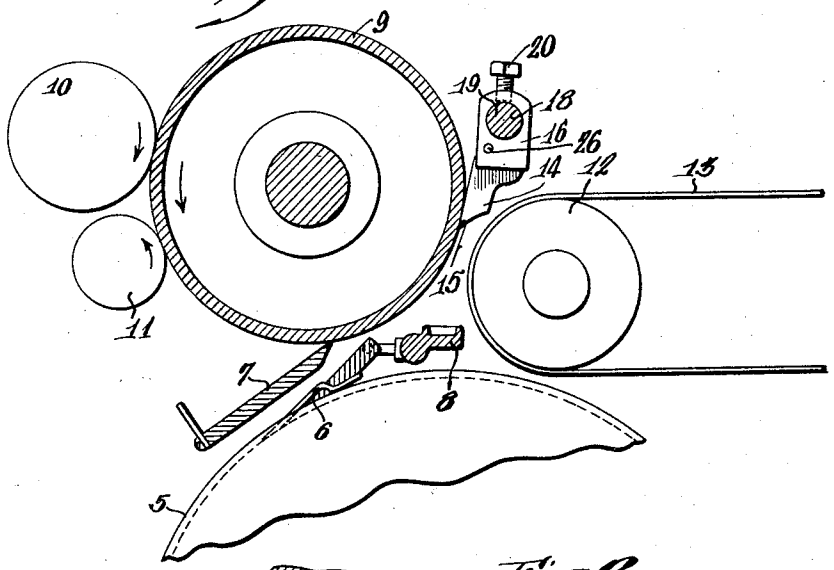


Fig. 3.

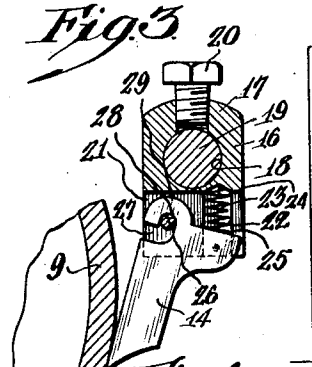


Fig. 4.

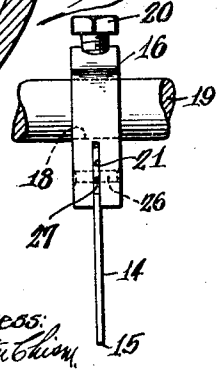
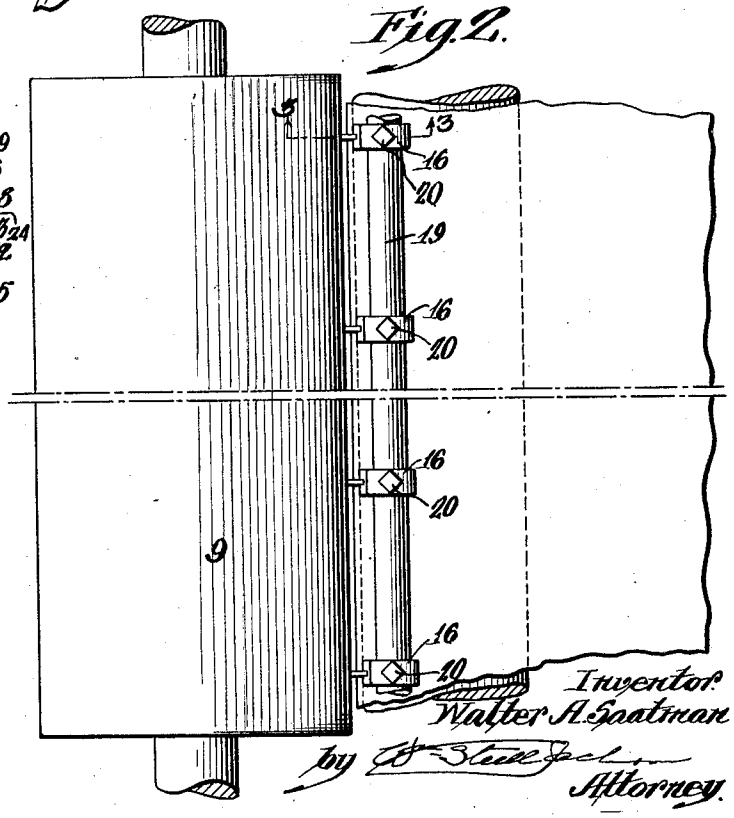


Fig. 2.



Witness:
Walter Edison

Inventor:
Walter A. Saatman
by
Attorney.

Patented Dec. 3, 1929 1,737,616

UNITED STATES PATENT OFFICE

WALTER A. SAATMAN, OF ROSLYN, PENNSYLVANIA

PICKER HOLDER

Application filed February 23, 1928. Serial No. 256,452.

My invention relates to gluing mechanism such as is used for gluing wraps, etc., in box manufacture.

The purpose of my invention is to facilitate the replacement of the pickers by which the wraps are withdrawn from the glue applying roll.

A further purpose is to provide the picker holders with readily separable spring connection with the pickers so that by slight rotation of the picker holders the pickers can be withdrawn for examination and returned or replaced by new pickers as desired.

A further purpose is to provide a particular form of removable connection between picker holders and pickers held thereby.

I have preferred to illustrate my invention by one form only, selecting a form which is practical, efficient, reliable and inexpensive and which at the same time well illustrates the principles involved.

Figure 1 is a fragmentary side elevation, partly in section showing a glue applying roll, pickers engaging it and associated parts.

Figure 2 is a top plan view of part of the structure seen in Figure 1.

Figure 3 is a fragmentary enlarged section of a portion of Figure 1 taken in a plane parallel to that of Figure 1.

Figure 4 is a fragmentary rear elevation of a portion of a supporting rod, a picker holder and a picker such as are seen in the other figures.

In the drawings similar numerals indicate like parts.

In the drawings I have illustrated a feed roll 5, stripper fingers 6, guide 7 and glue drip cup 8, comprising a portion of the mechanism used in feeding wraps to a glue-applying roll 9. The glue is applied to the glue-applying roll by an intermediate roll 10 and the quantity of glue upon the glue-applying roll is determined at the same time that the surface of the glue is smoothed by a doctor roll 11 moving in the opposite direction from the direction of rotation of the glue-applying roll. A conveyor pulley 12 and conveyor 13 are also shown. As thus far described these are all old and are illustrated here merely as a conventional form, one of many "settings" with which my invention may be used. The only essential so far is that there shall be a glue-applying roll upon which glue is deposited and from which wraps are to be "picked."

The picker 14 is spring pressed against the glue-applying roll 9 so that the point 15 of the picker and the adjoining picker edge will separate the wraps from the glue-applying roll.

As required by law I have illustrated the best form of picker holders and pickers known to me but am satisfied that many other forms of my invention would operate successfully and satisfactorily.

As illustrated, the picker holders 16 comprise bodies 17, bored at 18 to fit upon transverse supporting rods 19 and held upon the rods in selected position longitudinally of the rods and also angularly about them by set screws 20.

The picker holders 16 are slotted at 21 to receive the pickers 14 and are additionally bored at 22 to receive springs 23 by which the pickers are held to their duty. The springs press against the bottoms 24 of the bores at one end and against heels 25 upon the pickers at the opposite ends so as to tend to turn the pickers in clockwise direction in the figures about pivot pins 26 extending transversely of the slots 21.

Each picker is slotted or notched at one edge as at 27 much on the order of a keyhole slot, terminating in a bearing surface 28 adapted to rest upon and turn about a pivot pin 26.

The upper ends of the pickers are rounded at 29 so that when the picker holders have been loosened and rotated in counter-clockwise direction from the positions shown in Figures 1 and 3, the pickers can be turned in clockwise direction so as to permit withdrawal of the pickers by relative movement of the pickers and pivot pins along slots 27, having the effect of withdrawing the picker pivot pins from the pickers through slots 27. With normal spring compression the compression of the springs 24 will be released before the withdrawal of the pickers from about the pivot pins.

I believe that I am the first to provide for removability of spring-pressed pickers from their picker holders without removal of their picker holders from their supports, and correspondingly intend to claim this subject matter broadly.

In view of my invention and disclosure variations and modifications to meet individual whim or particular need will doubtless become evident to others skilled in the art, to obtain part or all of the benefits of my invention without copying the structure shown, and I, therefore, claim all such in so far as they fall within the reasonable spirit and scope of my invention.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A picker holder having an opening therein for mounting upon a support, means for securing the holder in angularly adjusted position upon the support, a pivot pin upon the holder, a picker mounted upon the pivot pin and slotted to permit removal from the pin by movement in the planes of the picker and spring means for holding the picker to its duty, tending to turn it about the pivot pin.

2. A picker holder apertured to receive a support, a screw adapted to fix the body in angularly adjusted position, a picker adapted to fit in a slot in the picker holder and having a lateral opening from the edge terminating in a bearing, a pivot pin across the slot, upon which pin the bearing is adapted to fit and a spring engaging the picker to resiliently tend to turn it about the pivot pin.

3. A picker holder adapted to be mounted upon and held to a support and having a slot at one end, a pivot pin across the slot, a picker having an opening at one edge and a bearing communicating with the opening adapted to rest upon the pivot pin and spring means tending to turn the picker about the pin.

WALTER A. SAATMAN.