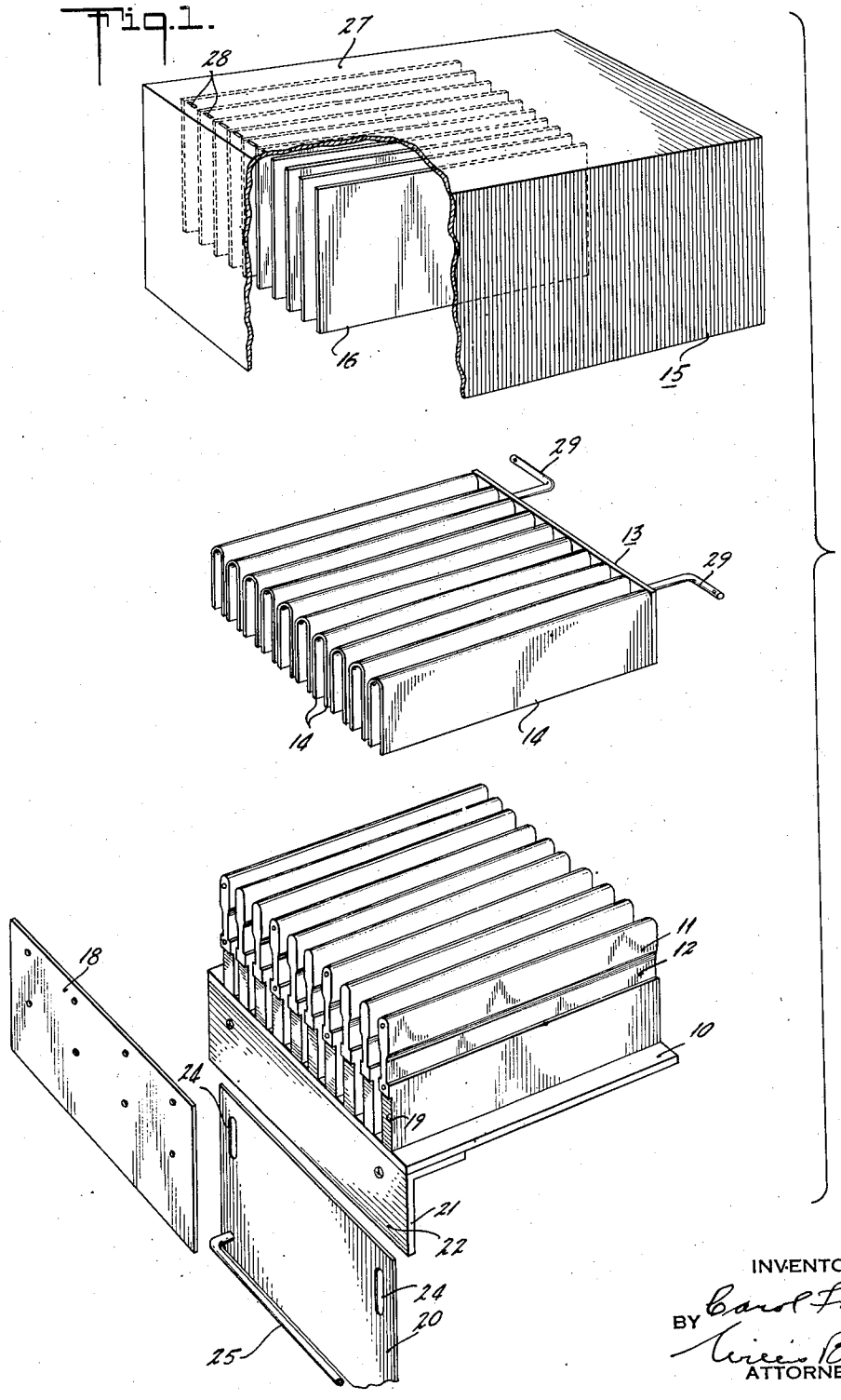
May 11, 1948. C. FRANK 2,441,352

HAIRPIN DISPENSER

Filed June 3, 1947 2 Sheets-Sheet 1

Fig. 1.



INVENTOR
BY Carol Frank
Lucius B. Rice
ATTORNEY

May 11, 1948. C. FRANK 2,441,352

HAIRPIN DISPENSER

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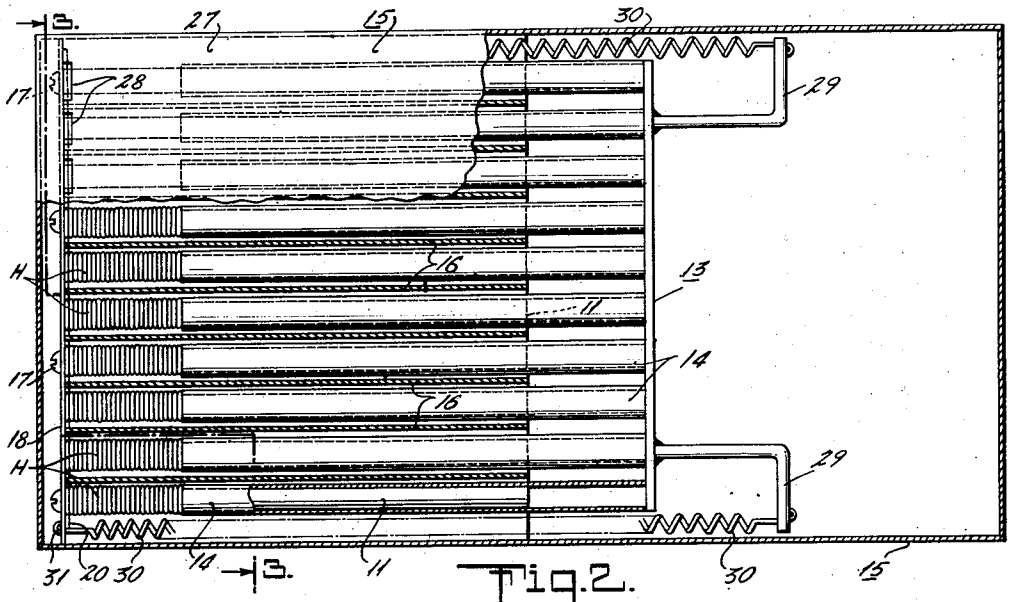


Fig. 2.

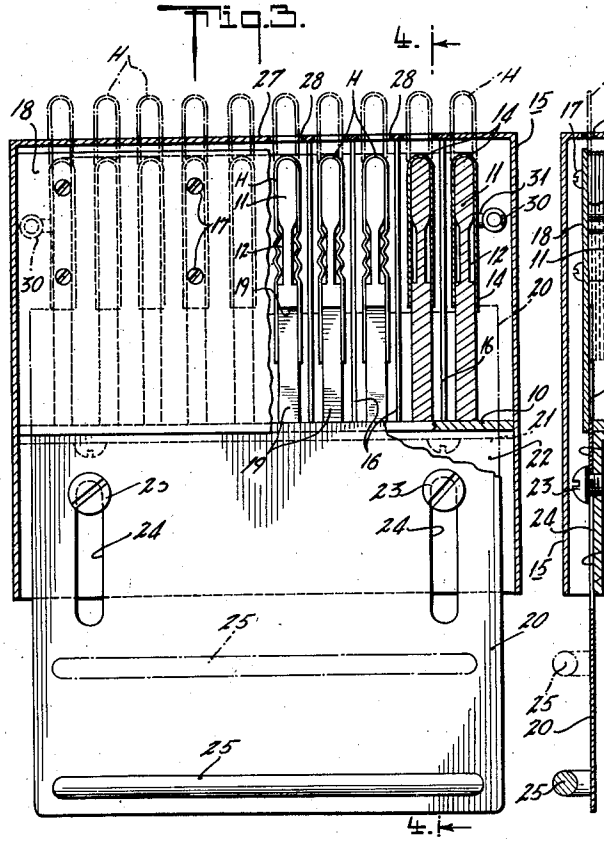


Fig. 3.

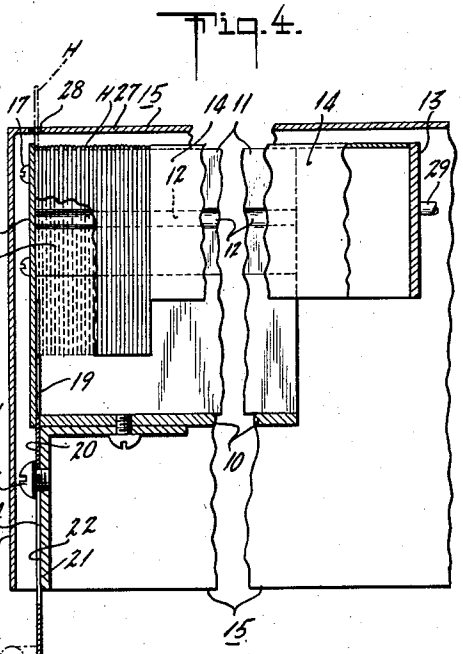


Fig. 4.

INVENTOR

BY Carol Frank

Lucius B. Kirk

ATTORNEY

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2,441,352

HAIRPIN DISPENSER

Carol Frank, New York, N. Y., assignor of one-half to Alfred Romagnolli, Maspeth, Long Island, N. Y.

Application June 3, 1947, Serial No. 752,140

4 Claims. (Cl. 312—68)

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This invention relates to a hairpin holder, or more particularly to a holder which will retain a large supply of hairpins and present them in a manner to be easily removed one by one by an operator.

In hair-dressing establishments, particularly for the setting and waving of hair, a large number of hairpins are employed by the operator, and these must usually be picked up with one hand while the hair is held in place with the other. It is an object of this invention to provide a mechanism by which a plurality of hairpins may be removed from the supply and presented in a position to be individually grasped. It is a further object to provide a device of the character described in which the hairpins may be loaded into the machine with a minimum of effort.

It is an important object of this invention to provide a machine which will deliver pins in a clean and sanitary condition in that each pin is new and is delivered without having to be handled individually except by the operator at the time of use.

The invention accordingly comprises an article of manufacture possessing the features, properties and the relation of elements which will be exemplified in the article hereinafter described and the scope of the application of which will be indicated in the claims.

For a fuller understanding of the nature and objects of the invention, reference should be had to the following detailed description taken in connection with the accompanying drawings, in which:

Fig. 1 is an exploded view of a device embodying this invention. Fig. 2 is a top plan view of the device assembled. Fig. 3 is a section on the line 3—3 of Fig. 2. Fig. 4 is a section on the line 4—4 of Fig. 3.

In the drawings, the numeral 10 designates a base having a plurality of upstanding bars 11 arranged thereon, each strip being of a shape adapted to fit within a hairpin H and have the hairpin slide along it. To this end each bar at the proper point in its height is cut away as shown at 12 to receive the crinkled portion of the legs of the hairpin H. These various bars 11 are arranged side by side, parallel to each other, spaced far enough apart to permit a plate 16, which will be described, to fit down in between the hairpins H on one bar and those on the adjacent bar to prevent interference between the hairpins.

Mounted over the bars 11 is a plurality of forwardly extending U-shaped channels 14 adapted to fit snugly over the bars 11 but to slide freely

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thereon. These channels are attached to a frame 13 so that by pushing the frame 13 forward, the ends of the channels will bear against any hairpins inserted upon the bars and push them forward as a unit. The machine is provided with a cover 15 to the under face of the top of which are attached the plates 16, of a size and shape and so positioned as to extend down between the channels 14 upon the frame 13 and hence between the bars 11, thereby completely separating one row of hairpins from the next.

Mounted upon the outer end of the bars 11 by screws 17 is a plate 18 against which the outer hairpins of each row will rest when the frame 13 is urged inwardly as will be described.

The outer end of each of these bars 11 is cut away as shown at 19, at its lower edge to provide a slot between the plate 18 and the ends of the bars 11 at that point for the reception of a feed plate 20. To serve as a guide for this feed plate, there is mounted upon the bottom of the base an angle iron 21 having one face 22 flush with the cut-away portion 19 of the bars 11. The feed plate 20 is held upon this face 22 by screw 23 fitting in slots 24 in the feed plate, the length of the slots being such as to permit the upper edge of the feed plate to fall below the bottom edge of the hairpins in its lower position, and to enable it to be pushed to an upper position where it strikes the top of the cut-away portion 19.

By this construction it will be seen that the feed plate 20 may be pushed upward or fall downward out of the way of the hairpins at will, and it is preferably provided with a handle 25 to facilitate this motion. This feed plate is of the same thickness as the wire of the hairpins so that when the hairpins are in place, it will push up one hairpin in each row, that is a total of 10 at a time. The top 27 of the cover 15 is provided with openings 28 in alignment with the feed plate 20, and having a width equal to the thickness of the single hairpin which the feed plate 20 is adapted to push up from each row, the cover being thus adapted to restrain the second hairpin from each row from moving.

The frame 13 is provided with outstanding angle brackets 29 extending laterally to each side to carry a spring 30 for connecting the frame to the base at 31. It will thus be seen that the frame will forcibly urge all of the hairpins on all of the bars toward the feeding position. It follows that as fast as one row of hairpins is manually removed by the operator in use, the frame 13 will move forward to move a new row of hairpins to the feeding position. As soon as this has occurred,

the handle 25 may be raised to push up all of the end hairpins comprising the next row into position to be grasped by the operator. Thus by a single motion of one hand, the operator may at will bring a new batch of hairpins into accessibility.

The hairpins for use in this machine will preferably be sold in strips of parallel pins held together by a breakable adhesive similar in principle to the strips of staples used in paper stapling machines. It follows that when the feed plate is raised, it will break off the end hairpins of each row and then raise them to accessible position.

Since certain changes may be made in the above construction and different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the following claims are intended to cover all of the generic and specific features of the invention herein described, and all statements of the scope of the invention which as a matter of language might be said to fall therebetween.

I claim:

1. A device for dispensing hairpins which comprises a base having a plurality of spaced parallel guide bars each shaped to extend within and support a hairpin, a frame slidable on said base having a plurality of parallel channels, one for each bar, each having a shape to conform to the exterior of and embracing its corresponding guide bar, a cover for said device adapted to define a passageway above said bars to permit motion of stacks of hairpins and said channels upon said bars, an end plate engaging the ends of said bars to limit the movement of said hairpins and channels, spring means to urge said frame and hairpins toward said end plate, said cover having an opening of a width equal to the thickness of a single hairpin, in registry with a hairpin when the latter is in contact with said end plate, and means to engage the last hairpin of each row of hairpins upon said bars and to force said hairpins partly through the opening in said cover.

2. A device for dispensing hairpins which comprises a base having a plurality of spaced parallel guide bars each shaped to extend within and support a hairpin, a frame slidable on said base having a plurality of parallel channels, one for each bar, each having a shape to conform to the exterior of and embracing its corresponding guide bar, a cover for said device adapted to define a passageway above said bars to permit motion of stacks of hairpins and said channels upon said bars, an end plate engaging the ends of said bars to limit the movement of said hairpins and channels, spring means to urge said frame and hairpins toward said end plate, said cover having an opening of a width equal to the thickness of a single hairpin, in registry with a hairpin when the latter is in contact with said end plate, the lower portion of said bars being cut away adjacent to said end plate to provide a channel of a width equal to the thickness of a single hairpin, and a feed plate vertically slidable within said channel to engage the lower end of the last hairpin of each row of hairpins to force the hairpins partly through the opening in the cover, and means for sliding said feed plate.

3. A device for dispensing hairpins which comprises a base having a plurality of spaced parallel guide bars each shaped to extend within and support a hairpin, a frame slidable on said base having a plurality of parallel channels, one for each bar, each having a shape to conform to the exterior of and embracing its corresponding guide bar, a cover for said device adapted to define a passageway above said bars to permit motion of stacks of hairpins and said channels upon said bars, an end plate engaging the ends of said bars to limit the movement of said hairpins and channels, spring means to urge said frame and hairpins toward said end plate, said cover having an opening of a width equal to the thickness of a single hairpin, in registry with a hairpin when the latter is in contact with said end plate, and means to engage the last hairpin of a row of hairpins upon said bars, and to force it partly through an opening in said cover, said cover having parallel spacers extending down between each row of hairpins to separate them.

4. A device for dispensing hairpins which comprises a base having a plurality of spaced parallel guide bars each shaped to extend within and support a hairpin, a frame slidable on said base having a plurality of parallel channels, one for each bar, each having a shape to conform to the exterior of and embracing its corresponding guide bar, a cover for said device adapted to define a passageway above said bars to permit motion of stacks of hairpins and said channels upon said bars, an end plate engaging the ends of said bars to limit the movement of said hairpins and channels, spring means to urge said frame and hairpins toward said end plate, said cover having an opening of a width equal to the thickness of a single hairpin, in registry with a hairpin when the latter is in contact with said end plate, the lower portion of said bars being cut away adjacent to said end plate to provide a channel of a width equal to the thickness of a single hairpin, and a feed plate vertically slidable within said channel to engage the lower end of the last hairpin of each row of hairpins to force the hairpins partly through the opening in the cover, and means for sliding said feed plate, said cover having parallel spacers extending down between each row of hairpins to separate them.

CAROL FRANK.