No. 694,467. Patented Mar. 4, 1902.

R. B. FULLER.

WORK CONVEYING AND PRESENTING MECHANISM.

(Application filed Apr. 5, 1901.)

(No Model.)

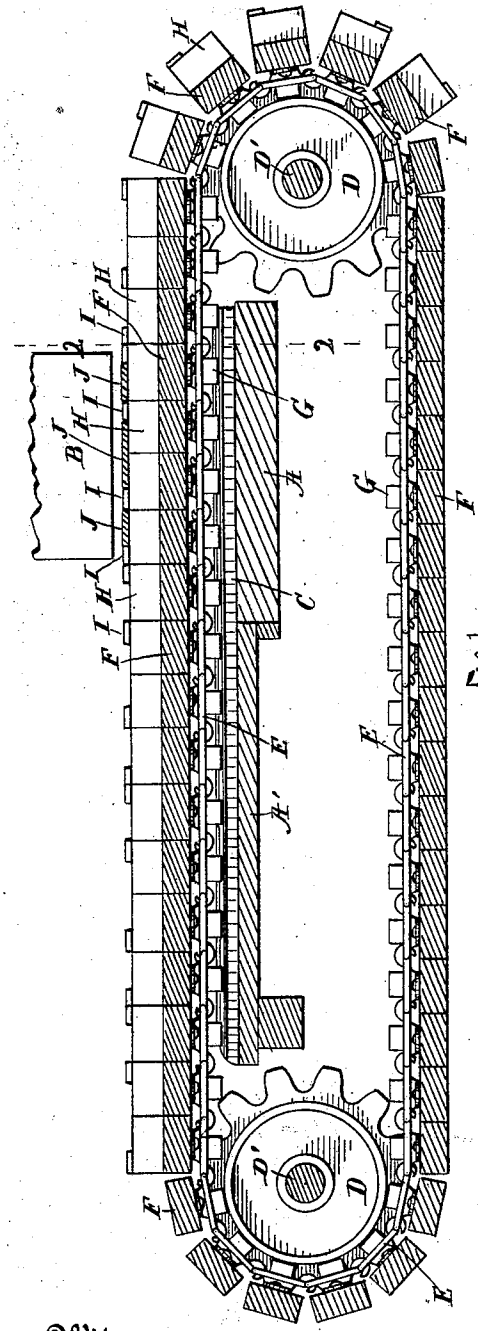


Fig. 1.

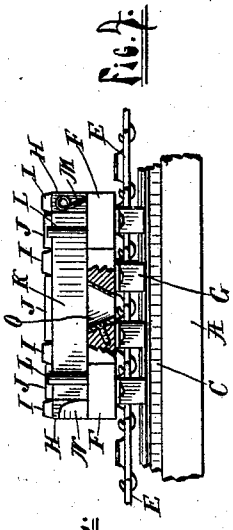


Fig. 4.



Fig. 5.

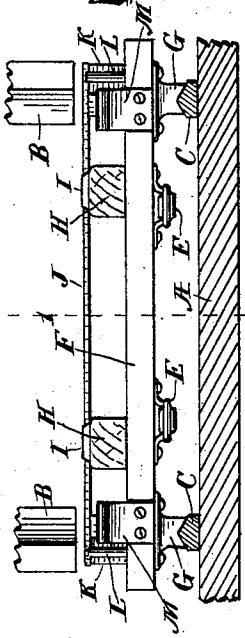


Fig. 2.

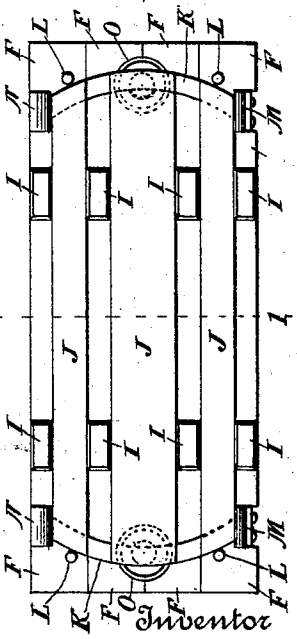


Fig. 3.

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UNITED STATES PATENT OFFICE.

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WORK CONVEYING AND PRESENTING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 694,467, dated March 4, 1902.

Application filed April 5, 1901. Serial No. 54,564. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL B. FULLER, a citizen of the United States, residing at Holland, in the county of Ottawa and State of Michigan, have invented certain new and useful Improvements in Work Conveying and Presenting Mechanism; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in mechanisms for conveying and presenting the materials to be operated upon to nailing-machines, presses, and like machines; and the particular device herein shown and illustrating my invention is especially adapted to operate in conjunction with a nailing-machine, and the material operated upon, as shown, is basket-tops to be used with what is commonly known as the "Climax" fruit-basket.

The object of my invention is to provide the automatic means for conveying the stock to be operated upon with improved means for holding the same in place while being nailed or otherwise operated upon by the machine and automatically releasing and discharging the stock after it has been operated upon.

My invention consists, essentially, in providing the machine having an endless belt or apron consisting of narrow transverse slats flexibly connected in series and traversing the bed of the machine and providing certain groups of these slats with improved holding means to engage the opposite sides of material to be operated upon and in certain details of construction and arrangement of parts, as hereinafter more fully described, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a longitudinal vertical section of a device embodying my invention, taken on the line 1 1 of Figs. 2 and 3; Fig. 2, a transverse section of the same on the line 2 2 of Fig. 1; Fig. 3, a plan of one group of slats and the stock supported thereby; Fig. 4, an end elevation of the same with a part broken away, and Fig. 5 a perspective of a finished basket-top.

Like letters refer to like parts in all the figures.

A represents the bed or table of a nailing-machine, press, or other analogous machine; B, the nailing-head or other operating member of the machine adapted to nail or otherwise operate upon the stock.

A′ is an extension of the bed A, above which extension the stock is placed and assembled in the holders.

C C are V-tracks on the beds A and A′, on which tracks the apron is movably supported. This apron consists of a continuous series of transverse slats F, attached to the links of endless sprocket-chains E, one slat to opposing links in the respective chains.

At each end of the bed or table A A′ are sprocket-wheels D, engaging the sprocket-chains E and mounted on shafts D′ D′, one of which shafts is provided with any convenient means (not shown) of imparting intermittent rotary motion thereto sufficient to carry the apron forward at each movement a suitable distance to successively bring each basket-top or other article under the member B.

Upon the bottom of each slat F are blocks G, having V-grooves to fit the track C and slide thereon. These blocks and tracks also afford a solid support to sustain the pressure or blow exerted by the member B. In the device shown, each successive group of four slats constitute a section adapted to hold the material for a basket-top and is provided with the following means for holding the same: blocks H, having projections I to engage the respective sides of the top strips J and hold the same in place, posts N to engage the ends of the segments K, springs M to engage the ends of the segments opposite the posts N. These posts N and springs M are attached to the outer sides of the outer slats of the group and upwardly-projecting pins L also inserted in the slats to engage the outer side of the segments K and properly locate the same. Beneath the middle of each segment is a conical thimble O to receive a long nail P, used

to secure the top in place on the basket. These thimbles are embedded in the adjacent sides of the middle slats, (of the group of four,) one-half in each, and secured to one slat only by a suitable screw or fastening, as shown in Fig. 4.

The extension A′ and the apron are made of sufficient length to accommodate a sufficient number of operators to place the stock in the holders as the apron traverses the extension A′. The segments K and top strips J will all be securely held as long as the apron is in a horizontal plane, and when a group of slats pass over the sprocket-wheels D said slats are separated and project radially from the axis of the shaft D′. This position separates the holding means and automatically discharges the stock therefrom.

From the foregoing description the operation of my device will be readily understood without further explanation.

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

1. The combination of sprocket-chains, wheels engaging the chains, transverse slats attached to opposing links in the chains and arranged in groups, posts attached to a slat at one side of the group, springs attached to a slat at the opposite side of the group, pins in the slats, and blocks on the respective slats and having upward projections to engage opposite sides of the stock, substantially as described.

2. In combination with a nailing-machine, an endless apron, consisting of transverse slats pivotally connected to each other and arranged in groups of four, one slat having posts pins, and blocks, to engage one side of the stock, one slat having springs, pins, and blocks to engage the opposite side of the stock, two of said slats having blocks to engage the stock, and thimbles between the middle slats and attached to one of the same, substantially as described.

3. The following means for holding basket-tops to be nailed: four slats pivotally connected to each other in series, posts at one side of the series to engage the ends of the segments, springs at the other side of the series to engage the opposite ends of the segments, pins in the outer slats to engage the outside of the segments, and blocks on each slat having upward projections to engage the opposite sides of the top strips, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

RUSSELL B. FULLER.

Witnesses:
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PALMER A. JONES.