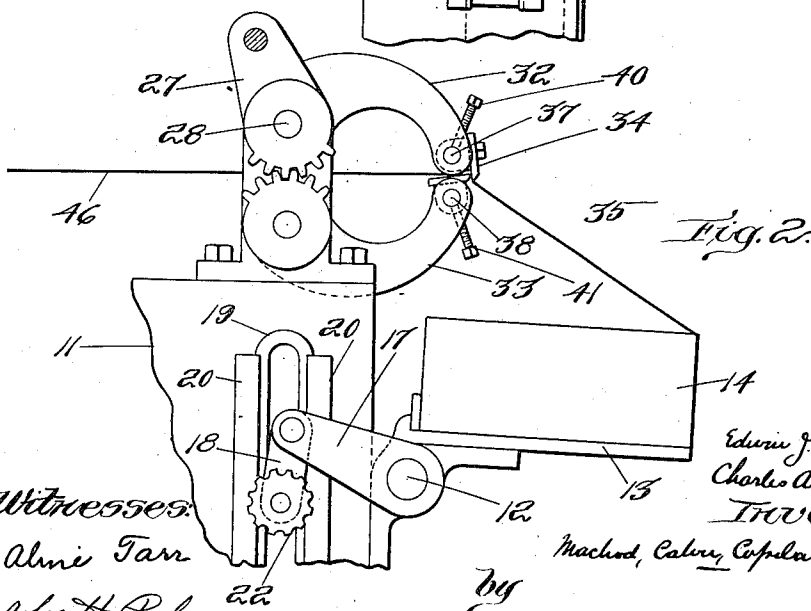
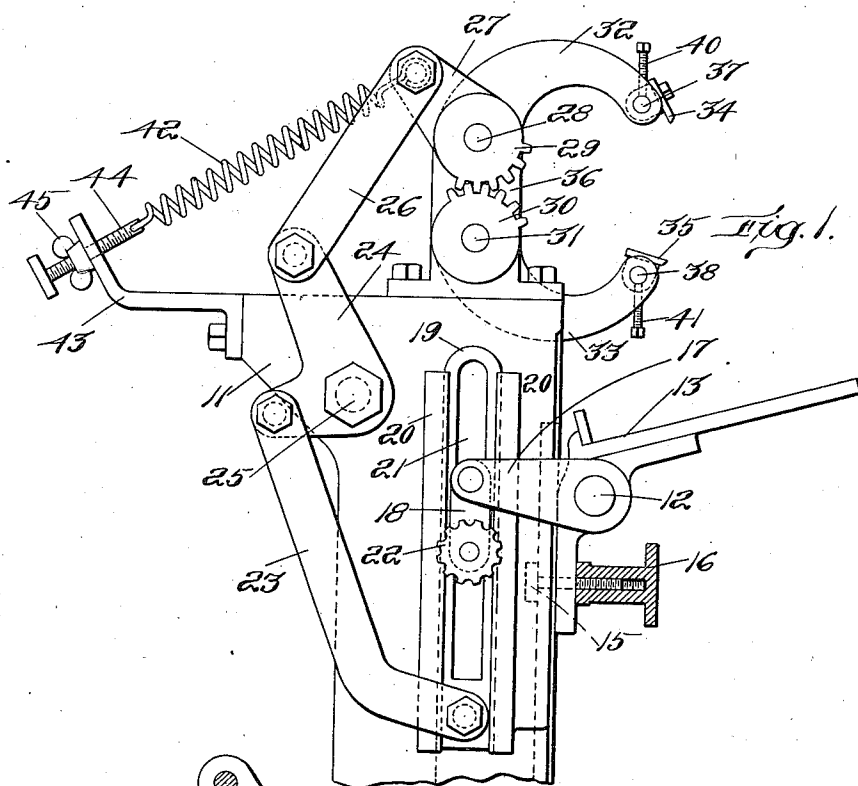


E. J. SCHOETTLE & C. A. GARRETT.
 PAPER SEVERING ATTACHMENT FOR PAPER BOX MACHINES.
 APPLICATION FILED JULY 15, 1909.

1,032,781.

Patented July 16, 1912.



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UNITED STATES PATENT OFFICE.

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PAPER-SEVERING ATTACHMENT FOR PAPER-BOX MACHINES.

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Specification of Letters Patent.

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Application filed July 15, 1909. Serial No. 507,718.

To all whom it may concern:

Be it known that we, EDWIN J. SCHOETTLE and CHARLES A. GARRETT, citizens of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Paper-Severing Attachments for Paper-Box Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention has for its object an improvement in attachments to be used in connection with paper box machines and more particularly in connection with the so-called covering machines. Its particular object is to provide means by which a strip of paper, such for instance as the cover paper, shall be automatically severed along the proper line without the necessity of the operator making a movement either with the hand or foot especially for this purpose, thereby saving to the operator a considerable amount of time and lessening the fatigue incident to the operation performed.

Our device is adapted particularly for use in covering machines in which the box or other article to be covered is supported upon a rest during the operation.

Our invention provides means by which the pressure which the operator puts upon the box when attaching the corners of the covering paper to the front corners of the box depresses the rest and causes the cutting attachment to sever the paper at the proper point. The paper which is thus severed from the web falls upon the box and is then rubbed down by hand in the usual way. It will be seen that our invention relieves the operator from the necessity of cutting off the paper by a separate foot or hand operation.

While we have described our invention in the following specification as applied particularly for box covering machines, we believe that it is capable of application to other kinds of paper box machines and accordingly do not limit ourselves to the particular application of the invention shown.

The invention will be fully understood from the following description taken in connection with the accompanying drawings, and the novel features thereof are pointed out and clearly defined in the claims at the close of the specification.

Referring to the drawings,—Figure 1 is a

side elevation of a machine embodying our invention showing also the support for the form on which the box is placed during the covering operation. Fig. 2 is a similar view showing the position of the parts at the time that the cutting operation takes place.

Referring now to the drawings,—at 11 is shown the head upon which is supported a rock-shaft 12 to which the rest 13 for the box form 14 (see Fig. 2) is fixed. The rest 13 is adjustable by means of the bolt 15 and thumb screw 16. A rocker arm 17 fast on the rockshaft 12 is connected by a link 18 to the slotted cross-head 19 sliding in ways 20 on the head 11 of the machine. The said cross-head 19 is slotted as shown at 21 and the position of the link 18 in relation to the said cross-head 19 is adjustable by means of the hand-screw 22. To the lower end of the cross-head 19 is pivoted a link 23 connected at its upper end to one arm of a bell crank lever 24 pivoted at 25 to the head 11 of the machine. The other arm of the bell crank lever 24 is connected by a link 26 to the arm 27 of a rockshaft 28 supported in a bracket 36 on the head 11 of the machine. Fast on said rockshaft 28 is a gear 29 meshing with a gear 30 on a second shaft 31. Said shafts 28 and 31 are each provided with jaws 32 and 33 which are substantially crescent shape and are provided at their extremities with cooperating cutters 34 and 35 respectively. Said cooperating cutters are pivoted for the purposes of adjustment to the respective jaws 32 and 33 at 37 and 38 respectively and are fixed in any desired position by means of the set screws 40 and 41. The parts are held with the jaws normally separated as shown in Fig. 1 by means of the spring 42 attached at one end to the arm 27 of the rockshaft 28 and at the other end to a bracket 43 on the head 11 of the machine. Adjustment is provided by means of the screw 44 and check nut 45.

The paper from the roll of the cover machine is shown at 46 in Fig. 2, and it will be seen that the parts are so located that the cutters 34 and 35 come together on substantially the line on which the paper is drawn from the reel on which it is wound in the cover machine. The box rest 13 is so located with relation to the position of the cutters at the point where they come together that the desired length of paper required to cover the box is severed by the cutters from the web of paper. This adjustment may be

made with considerable accuracy so that the waste of paper is reduced.

In the operation of the machine embodying our invention, the operator seizes the end of the web of paper taking the two corners thereof between the thumb and forefinger of each hand. He draws out the paper from the web, and then presses the paper which has been previously provided with adhesive down upon the two front corners of the box which is upon the rest. This moves the rest downwardly thereby drawing out the paper somewhat farther owing to the location of the respective parts relative to each other and near the end of the said downward stroke the cutters operate to sever the paper at the right point. The operator then rubs the severed portion of the paper down upon the box in the usual manner.

20 What we claim is:

1. A paper severing attachment for paper box machines comprising a pair of pivoted jaws on opposite sides of the strip of paper, each of said jaws having a cutting edge, 25 both of said jaws being movable and adapted to meet centrally and sever the strip of paper, a rest for the box movable downwardly from its normal position and connections between the said jaws and the said rest whereby the downward movement of 30 the rest causes the said jaws to meet centrally and sever the strip of paper.

2. A paper severing attachment for paper box machines comprising a pair of pivoted 35 jaws on opposite sides of the strip of paper to be severed, each of said jaws having a cutting edge, a rest for the box movable downwardly from its normal position and connections between the said jaws and the said rest whereby the downward movement 40 of the said rest first draws out the strip of paper and then causes the jaws to meet centrally and sever the strip of paper.

3. A paper severing attachment for paper

box machines comprising a pair of pivoted 45 jaws on opposite sides of the strip of paper to be severed, each of said jaws having a cutting edge, a pivoted rest for the box below and beyond said jaws and movable downwardly from its normal position and 50 connections between the said jaws and the said rest whereby the downward movement of the rest first draws out the strip of paper and then causes the jaws to meet centrally and sever the strip of paper. 55

4. A paper severing attachment for paper box machines comprising a pair of pivoted jaws on opposite sides of the strip of paper to be severed, each of said jaws being provided with cutting edges, a rest for the box 60 below and beyond the said jaws and movable downwardly from its normal position and connections between the said jaws and the said rest whereby the downward movement of the rest draws out the strip of paper 65 and severs the strip of paper while it is still being drawn out.

5. A paper severing attachment for paper box machines comprising movable cutting mechanism, a pivoted support for the box, a 70 support for said pivot adjustable vertically a cross-head, an adjustable connection between said pivot and said cross-head and connections intermediate said cross-head and said movable cutting mechanism whereby 75 said movable cutting mechanism is actuated by the movement of said movable support, and the position of the pivoted support may be adjusted with relation to the said cutting mechanism. 80

In testimony whereof we affix our signatures, in presence of two witnesses.

EDWIN J. SCHOETTLE.
CHAS. A. GARRETT.

Witnesses:

OTTO WOERNER,
J. G. BAYNE.