

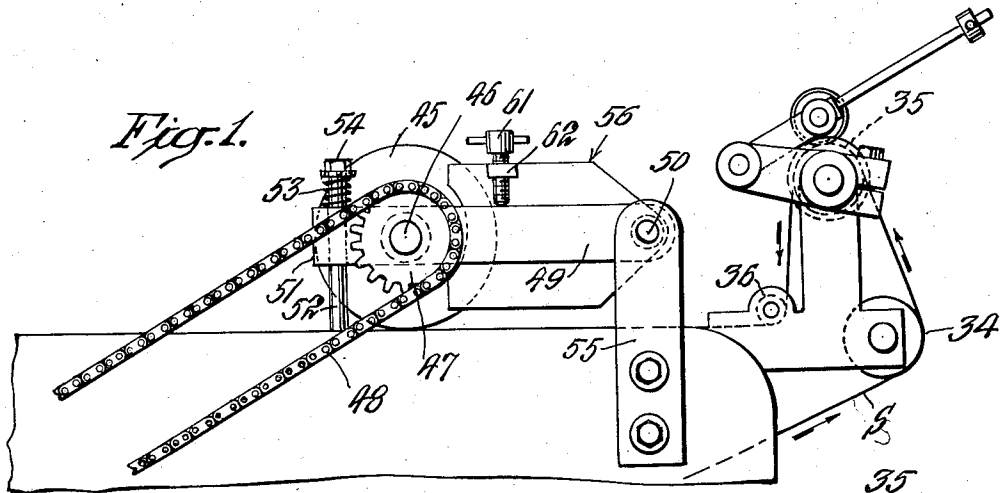
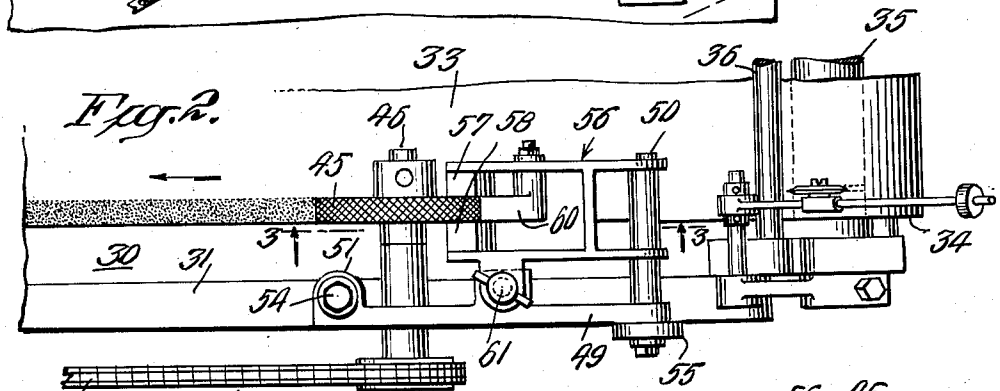
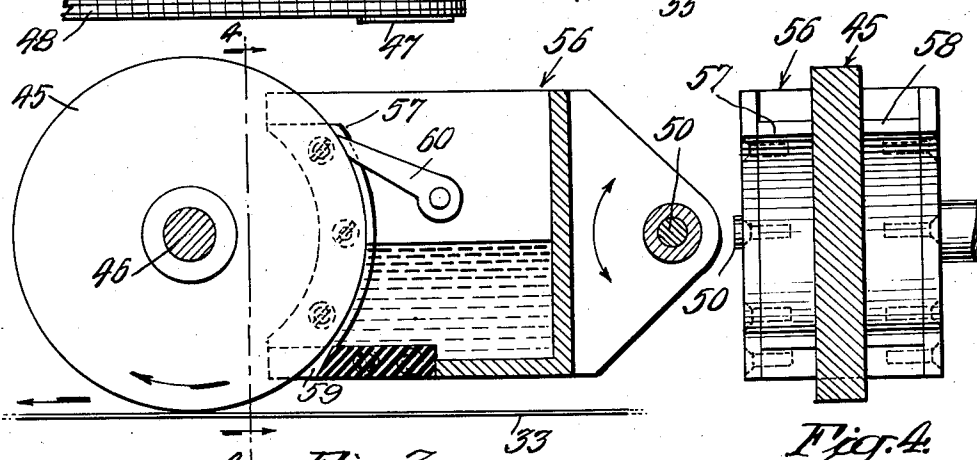
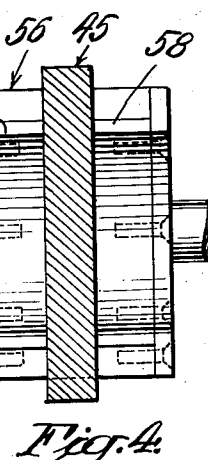
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2,862,471

GLUE APPLYING MEANS

Original Filed Jan. 20, 1955



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2,862,471

GLUE APPLYING MEANS

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Original application January 20, 1955, Serial No.
482,931. Divided and this application February 7,
1956, Serial No. 563,896

2 Claims. (Cl. 118—259)

This invention relates to adhesive or glue applying means and this application is a division of application Serial No. 482,931, filed January 20, 1955.

The mechanism has been developed for applying adhesive to a strip of paper and has for its salient object to provide glue or adhesive applying mechanism so constructed that the glue applying wheel will not wear and will not stick, after use.

Further objects of the invention will appear from the following specification taken in connection with the drawings which form a part of this application, and in which

Fig. 1 is a side elevation of mechanism constructed in accordance with the invention;

Fig. 2 is a top plan view of the structure shown in Fig. 1;

Fig. 3 is a sectional elevation taken substantially on line 3—3 of Fig. 2, looking in the direction of the arrows; and

Fig. 4 is a sectional elevation taken substantially on line 4—4 of Fig. 3, looking in the direction of the arrows.

In the particular embodiment of the invention illustrated, there is shown a table or plate 30 supported by suitable frame members and over which a strip 33 is led from a suitable supply roll around rollers 34 and 35 and downwardly beneath a roller 36 to the top of the table 30.

After the strip 33 leaves the guide roller 36, it is drawn beneath a glue roller or wheel 45 by suitable strip feeding mechanism. The wheel or roller 45 is mounted on a spindle 46 which has a sprocket wheel 47 secured thereto. The sprocket wheel 47 is driven by a chain 48 from a suitable source of power.

The spindle 46 is mounted on an arm 49 which is mounted on a fixed pivot 50 and has at its opposite end a vertical sleeve 51 which receives a threaded stud 52 which is secured to and extends upwardly from the side frame member 31. A spring 53 is mounted on the stud 52 and a nut 54 at the upper end of the stud exerts through the spring a resilient downward pressure on the arm 49 and on the shaft 46 and glue wheel 45 carried thereby.

The spindle 50 which is carried by a suitable bracket 55 has pivotally mounted thereon a glue pot 56. It will be noted that the glue wheel 45 rotates between a pair of blocks 57 and 58 which are formed from a suitable

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non-abrasive yet hard, rigid, synthetic plastic material. Certain thermosetting phenolic resinous materials, sold under the name "Bakelite", a trademark of the Bakelite Company, can be used for this purpose. It will also be noted that the lower end of the glue pot is cut away, as shown at 59, to receive the wheel 45. The blocks 57 and 58 act as wipers and because of the nature of the material of which they are made will not cause any wear on the glue wheel 45, which may be made of brass or other suitable material. Furthermore, there will not be a tendency for the wheel to stick between the blocks.

A pivoted wiper 60 rests against the rim of the wheel 45 and removes excess glue therefrom. It will be noted from the showing in Figs. 4 and 5 that a screw 61 is mounted in a lug 62 on the glue pot and bears against the upper edge of the arm 49. By turning this screw the glue pot can be tilted about the spindle 50, thus varying the amount of contact between the glue in the pot and the rim of the wheel. In this way the amount of glue carried by the wheel to the strip can be regulated.

From the foregoing description it will be evident that because of the nature of the material of the blocks 57 and 58, these blocks will not cause the side faces of the wheel 45 to wear and, moreover, the wheel will not stick to the blocks.

Although one specific embodiment of the invention has been particularly shown and described, it will be understood that the invention is capable of modification and that changes in the construction and in the arrangement of the various cooperating parts may be made without departing from the spirit or scope of the invention, as expressed in the following claims.

What we claim is:

1. Glue applying means comprising a glue pot having an open end, a glue wheel rotatable through said opening, and blocks on said glue pot at the open end thereof, said blocks constituting walls for the said pot adjacent the glue wheel, and said blocks being spaced apart to closely fit against the side surfaces of the wheel and receive the wheel therebetween, said blocks being formed of hard, rigid, non-abrasive plastic material.

2. Glue applying means comprising a pivoted glue pot having an open end, a glue wheel rotatable through said opening, blocks on said glue pot at the open end thereof, said blocks constituting walls for the said pot adjacent the glue wheel, and said blocks being spaced apart to closely fit against the side surfaces of the wheel and receive the wheel therebetween said blocks being formed of hard, rigid, non-abrasive plastic material, and means for adjusting said glue pot on its pivot.

References Cited in the file of this patent

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UNITED STATES PATENT OFFICE
CERTIFICATION OF CORRECTION

December 2, 1958

Patent No. 2,862,471

Melvin H. Sidebotham, Sr., et al.

It is hereby certified that error appears in the above numbered patent requiring correction and that the said Letters Patent should read as corrected below.

In the drawings, Sheet 1, lower right-hand corner, name of inventor, for "Gordon L. Sidebotham, Jr." read -- Gordon L. Sidebotham --.

Signed and sealed this 2nd day of May 1961.

(SEAL)

Attest:

ERNEST W. SWIDER
Attesting Officer

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Commissioner of Patents