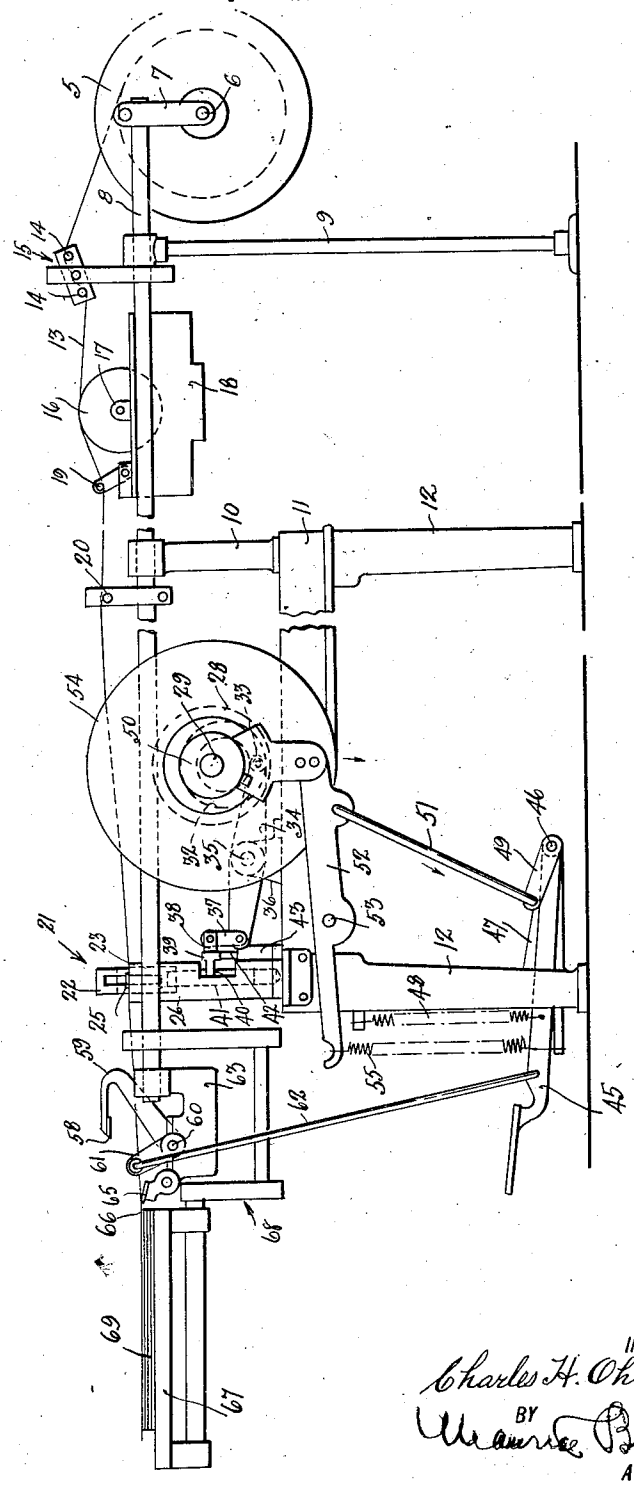
Aug. 30, 1927. 1,640,466

C. H. OHLSSON

WEB NOTCHING AND BLANKING MECHANISM FOR OUTSIDE COVERS

Filed April 29, 1926 2 Sheets-Sheet 1

Fig. 1.



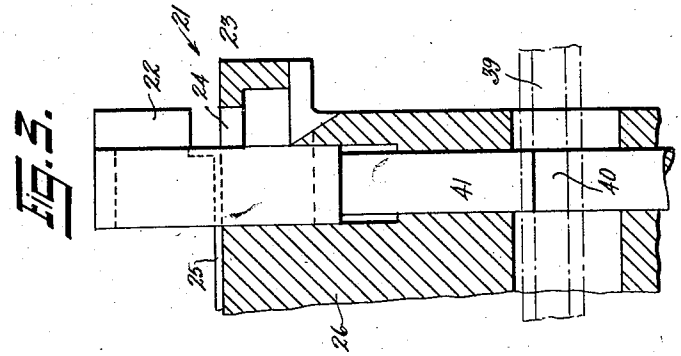
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Filed April 29, 1926 2 Sheets-Sheet 2

Fig. 2.



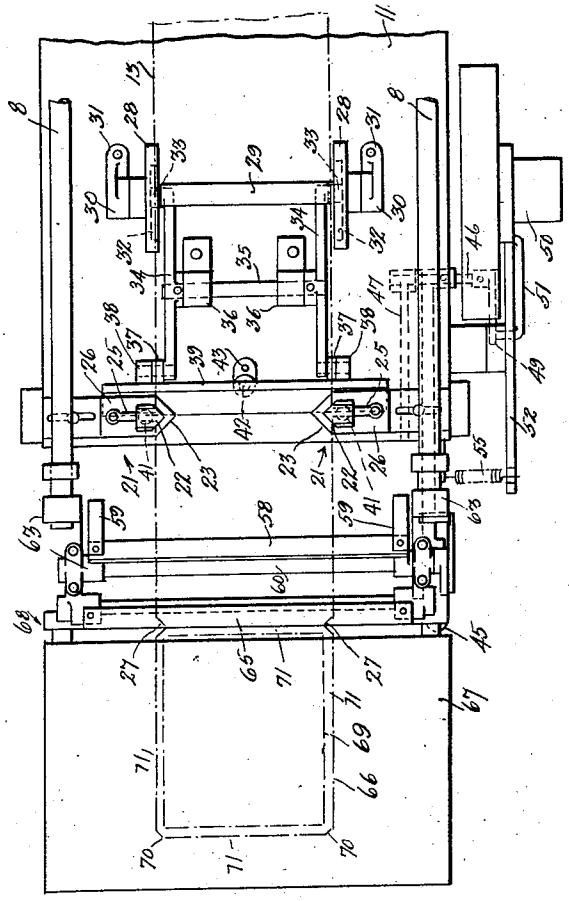


Fig. 2.

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UNITED STATES PATENT OFFICE.

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WEB NOTCHING AND BLANKING MECHANISM FOR OUTSIDE COVERS.

Application filed April 29, 1926. Serial No. 105,429.

This invention relates to machines for applying glue to a continuous roll of paper, cloth, leather or the like and then cutting same into blanks of a predetermined size.

The main object of the invention is the provision of a machine of this character adapted to have a roll of paper, cloth, leather or the like mounted at the rear thereof, and draw the material on said roll over a glue applying roller, thence under a trimming die to have same trimmed, and then cut into blanks of a predetermined size.

Another object of the invention is to provide a blanking means adapted to so form the corners of the blanks as to avoid the necessity of trimming the said corner after the blank is pasted and folded over a form of cardboard or other material to be used as a box cover or the like.

A further object of the invention is to provide a safety device for such a machine to prevent any injury to the hands or fingers of the operator when cutting such blanks.

Other objects and novel features of my invention will be fully described as the specification proceeds.

Referring to the drawings forming a part of this specification in which like numerals refer to corresponding parts throughout the several views,

Figure 1 is side view in elevation of a machine embodying my invention.

Figure 2 is a top plan view of the front portion of the machine showing the trimming die and blanking means, and

Figure 3 is a sectional view of a portion of one of the trimming dies.

Referring to the drawings in detail, 5 indicates a roller mounted on a shaft 6 journaled in depending bracket members 7 secured to bars 8 forming horizontal frame members supported at the rear on upright legs 9 and on intermediate supporting brackets 10 secured to a bed plate 11 supported on legs 12. A continuous web 13 of paper, leather, cloth or the like upon the roll 5 passes between a plurality of rods 14 on an adjustably mounted frame 15 adapted to act as a slack take up means and thence over the peripheral surface of a roller 16 journaled in bearings 17, said roller 16 being partly immersed in a pot 18 containing glue. The web 13 continues to pass under and over slack take up rods 19 and 20 adjustably mounted on the bars 8 and thence through a trimming die 21 comprising V shaped cutters 22 and die plates 23 having openings 24 conforming to the shape of the cutters 22. Guide members 25 secured to upright housings or blocks 26 through which the cutters are guided when actuated to move up and down to form notches 27 in the web 13 act as a backing for the side edges of the said web when the notches are cut in same. Cams 28 mounted on a shaft 29 journaled in bearings 30 of brackets 31 secured to the bed plate 11 and having cam grooves 32 in which cam rollers 33 revolvably mounted on levers 34, secured to a shaft 35 journaled in brackets 36 on the bed plate 11, operate to rock the levers 34 thus actuating the cutters 22 in an up and down vertical direction by means of connecting links 37 associated at one end to the lever 34 and at the opposite ends to ears 38 on a T shaped member 39 which passes through slots 40 in upright posts or rods 41 integral with or secured to the cutters 22. The posts 41 are guided in the housing 26, and the T shaped member 39 is guided by means of a depending projection 42 projecting into a bracket 43 secured to the bed plate 11. The distance between the dies may be adjusted by moving the housing 26 inwardly or outwardly on the member 39 and then fasten same to the bed plate 11. A foot lever 45 fast to a shaft 46 loosely journaled in a bracket 47 extending inwardly from the legs 12 when depressed against the tension of a spring 48, will rock a lever 49 on the shaft 46 and will release a clutch 50 by means of a connecting rod 51 connected at one end to the lever 49 and on its other end to a clutch lever 52 pivoted on a stud 53. The clutch is normally held out of running engagements with a driving pulley 54 by the action of a spring 55 pulling on the outer end of the lever 52.

The depression of the foot lever 45 will draw down a knife 58 running across the machine and fastened to arms 59 secured to a shaft 60, upon which is also mounted an arm 61 connected to one end of a link 62, the other end of which being connected to the foot lever 45. The shaft 60 is journalled in brackets 63 secured to the frame members 8. A plate 65 secured at its ends to the brackets 63 coacts with the knife 58 to shear a blank 66 from the web 13 when the said knife is fully drawn down. By placing the center of the notches 27 on the front edge of

the plate 65, the exact length of the blank 66 will be determined.

The mechanism just described is always under the control of the operator, inasmuch as it is not permanently connected to the power driven shaft 29, but is operated by the foot lever 45, the release of which will prevent the operator from accidentally cutting his fingers or hands when cutting the blank 66 from the web 13.

A table 67, supported on the frame members 8 by means of a frame work 68, may have card board forms 69 arranged thereon to which the blanks 66 are pasted by rubbing the hand over same after the said blanks are severed from the web 13. It will be seen from Figure 2 of the drawings, that the trimming dies 21, in cutting the notches 27, in the web 13, will provide the blanks 66 with beveled corners 70, so that when the edges 71 are pasted to the underside of the forms 69, in a later operation, no excess material will protrude, thus forming a neat joint at the corners.

From the foregoing, it will be seen that I have provided a machine, in which a roll of paper, cloth, leather or the like is mounted, the said material being adapted to be drawn over a glue applying roller, and thence between a set of adjustable dies to notch the said material, to form beveled corners, when the material is cut into blanks by a cutting mechanism, at all times under the control of the operator. I have also provided a table at the front of the machine, where the operator may paste the blank to a form adapted to be used as a book cover, paper box cover, or the like.

Having described my invention, what I claim as new, is:—

1. In a machine adapted to have a web fed therethrough, a die adapted to cut notches along the edges of said web, operating means for the said notching die, a blank cutting mechanism, and blank cutting mechanism operating means releasably associated with the notching die operating means.

2. In a machine adapted to have a web fed therethrough, a die adapted to cut notches along the edges of said web, means for operating the dies, die operating actuating means, blank cutting means, comprising a shaft revolvably mounted in the machine, arms on said shaft, a knife blade secured to said arms, a fixed plate at a predetermined position in relation to said knife blade, and means for releasably operating said knife blade in relation to the die operating actuating means.

CHARLES H. OHLSSON.