H. C. JARVIS.

TAPING MACHINE.

APPLICATION FILED JULY 10, 1919.

1,355,228.

Patented Oct. 12, 1920.

2 SHEETS—SHEET 1.

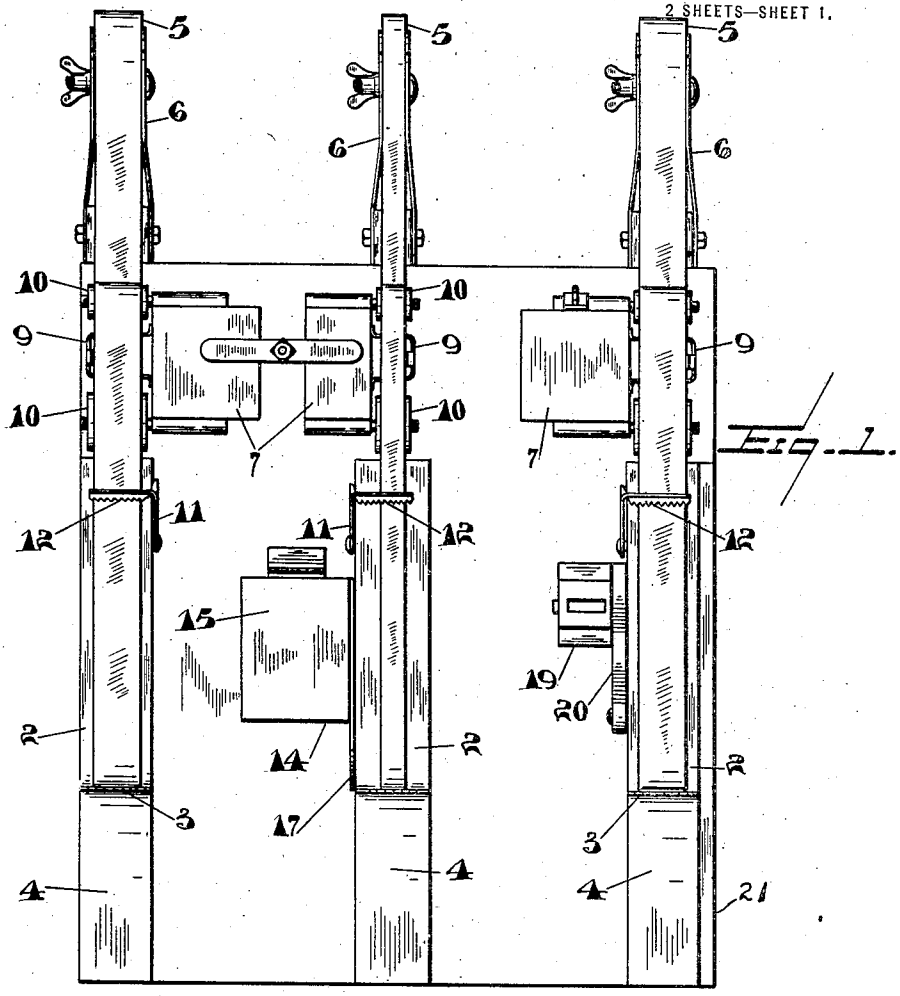


Fig. 1.

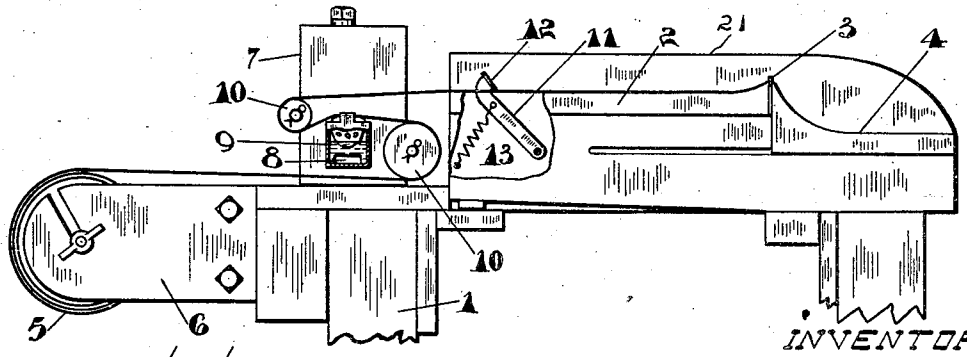


Fig. 2.

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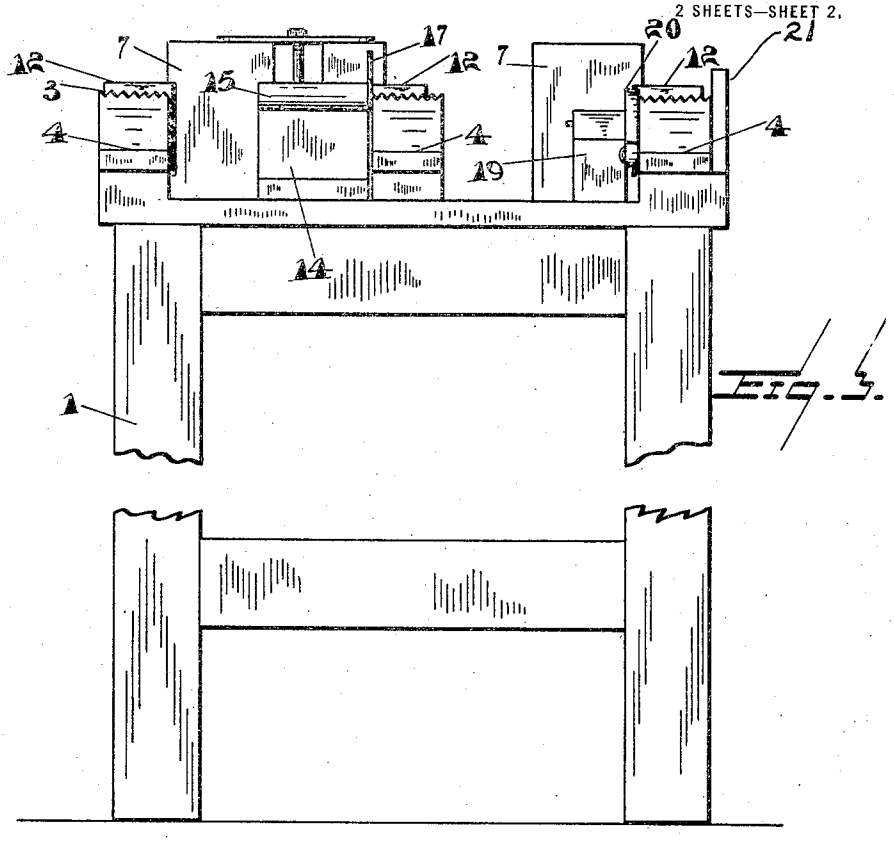


Fig. 3.

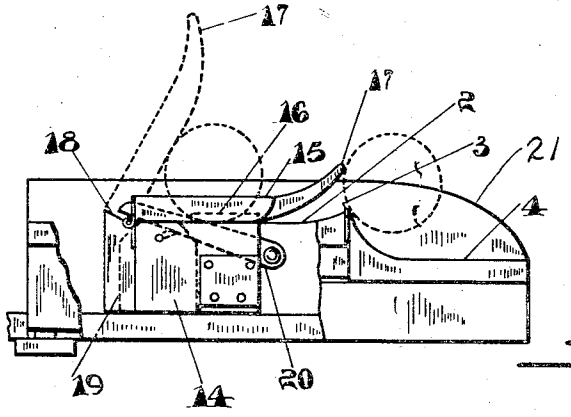


Fig. 4.

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UNITED STATES PATENT OFFICE.

HERBERT C. JARVIS, OF TORONTO, ONTARIO, CANADA.

TAPING-MACHINE.

1,355,228. Specification of Letters Patent. Patented Oct. 12, 1920.

Application filed July 10, 1919. Serial No. 309,982.

To all whom it may concern:

Be it known that I, HERBERT CHERRIMAN JARVIS, of the city of Toronto, in the county of York, Province of Ontario, Canada, have invented certain new and useful Improvements in Taping-Machines, of which the following is a specification.

This invention relates to apparatus for securing in condition for handling rolls of material such as wall paper, and my object is to devise apparatus by means of which an operator can rapidly and securely apply to the roll one or more encircling bands of adhesive material. A further object is to provide in connection with the apparatus means for applying any given marks to the roll during the taping operation, and means for counting the number of rolls taped.

I attain my object by means of the constructions hereinafter described and illustrated in the accompanying drawings in which—

Figure 1 is a plan view, partly broken away, of my improved machine;

Fig. 2 a side elevation of the same, part of the frame work being broken away;

Fig. 3 a front elevation of the machine, part of the frame work being broken away; and

Fig. 4 a side elevation of parts of the machine illustrating more particularly the marking and cutting mechanism.

In the drawings like numerals of reference indicate corresponding parts in the different figures.

1 is the frame of the machine suitably shaped to support the different parts. On this frame work one or more roll supports 2 are carried extending in a direction from back to front of the machine. These roll supports do not require to be substantially wider than the adhesive tapes to be applied to the rolls. In front of each roll support is located a tape cutter 3 preferably of the toothed form shown, the cutter projecting above the level of the roll support, which preferably curves up toward the cutter as shown.

In front of each tape cutter and at a lower level than the roll support is located a rolling table 4. These rolling tables need not be any wider than the roll supports, though a continuous table extending from side to side of the machine would answer the purposes of my invention.

The adhesive tapes are carried on the reels 5 suitably journaled on brackets 6 at the rear of the machine. Between the reels and the roll supports are located the moistening devices, one for each machine. While I use the term moistening devices, it will be understood that these devices might either be used to apply water to a previously gummed tape, or to apply gum or paste to a plain tape or band of paper.

Each moistener comprises a fountain tank 7 communicating through an opening 8 with a sponge holding tank 9. On each moistening device is journaled a pair of idler rollers 10 around which the tape is led, between the two rollers passing over and in contact with the sponge in the sponge holding tank. From the rearmost roller 10 each tape passes over and along one of the roll supports 2. Each roll support is provided with means for preventing backward movement of the tape on the support. A lever 11 pivoted on the side of the support and provided with an arm 12, preferably serrated, and adapted to engage over the top of the support, will answer the purposes of my invention. While gravity will frequently be sufficient to insure the proper operation of the device, I prefer to provide a coil spring 13 tending to hold the arm 12 in contact with the tape passing over the support. The lever 11 being inclined rearwardly from its pivot, the tape readily pulls underneath the arm 12, but will be securely held from moving backward. This device is of importance when a tape is severed at the tape cutter 3 as hereinafter described.

The mode of using the apparatus is substantially as follows: A roll, of wall paper for instance, is placed on the rolling table 4. It is then lifted to a position just behind the tape cutters 3 on the roll supports 2. It here contacts with the moistening tapes, the ends of which have been left lying just behind the tape cutters as the result of the previous operation. The roll is then rolled toward the rear of the machine and the tapes are wrapped around the roll. The next movement is to draw back the roll over the supports, which results in drawing a fresh length of tape from each of the reels 5. The roll is again dropped on to the rolling tables and a rolling movement is imparted to it on the rolling tables. This causes the severance of the tapes by the tape cutters and the

final rolling down of the cut off portions of tapes on the roll of paper. The operation is then complete.

It is important, however, to mark each roll with certain data and also preferable to keep count of the number of rolls turned out by the machine. I therefore provide the attachments I will now describe. 14 is the marker, which is suitably supported between two of the roll supports. The marker may be of any ordinary type provided usually with rubber type. Hinged at the back of the marker is a lever 15 inserted in which is an inking pad 16. Normally this lever lies with the pad in contact with the type of the marker. The lever is provided with an upwardly inclined end 17 which lies in the path of a roll being rolled along the roll supports. At its hinge end is provided a stop or shoulder 18 with which the rear end of the lever 15 contacts to limit its rearward swing. A roll of paper being rolled along the roll supports will thus engage the end 17 and lift the lever to the position shown in dotted lines in Fig. 4, permitting the roll to roll over the top of the marker and thus become marked. The lever 15 when raised serves as a stop to limit the extent to which the roll may be rolled along the roll supports, so that each roll will pick up the necessary length of tape and no more. When the roll is drawn back, the lever drops to its normal position and re-inks the type of the marker.

The counter 19 may be of any ordinary type. For instance, a Veeder counter is satisfactory for my purposes. This counter is provided with a pivoted trip 20 which lies at an inclination to the path of a roll being rolled along the supports 2, so that the trip is depressed by the roll and thus actuates the counter.

To properly position the rolls, relative to the tapes, transversely of the machine, I provide an end stop and guide 21 against which one end of a roll will lie when being taped. This end stop is secured to and projects above one end roll support 2 and the table 4 in front thereof.

What I claim as my invention is:—

1. A taping machine for rolls comprising a roll support on which an adhesive tape may lie and along which it may be drawn; a tape cutting blade at the forward end of the support projecting above the level of the support; and a rolling table in front of said blade at a lower level than the roll support.

2. A taping machine constructed substantially as set forth in claim 1 provided with a roller for a band of tape; a tape moistening device over which the tape passes to the roll support; and means for preventing backward movement of the tape on the support.

3. A taping machine constructed substantially as set forth in claim 1 provided with an end stop and guide for the rolls parallel to the roll support which determines the position of the roll to the tape transversely of the apparatus.

4. A taping machine for rolls comprising a roll support on which an adhesive tape may lie and along which it may be drawn; a tape cutting blade at the forward end of the support projecting above the level of the support; a roll marker supported with its upper face in marking position relative to the level of the surface of the roll support; a lever arm carrying an inking pad normally contacting with the marker face; and an upwardly inclined end on the lever beneath which the roll may pass to lift the pad from the marker and permit the roll to contact therewith.

5. A taping machine for rolls comprising a plurality of roll supports on which adhesive tapes may lie and along which the roll may be drawn; a tape cutting blade for each support projecting above the level of the support; a rolling table in front of said supports; an end stop and guide for the rolls parallel to the supports; and means for preventing backward movement of the tapes on the supports.

Signed at Toronto this 18th day of June, 1919.

HERBERT C. JARVIS.

Witnesses:
SYLVIA MCKITRICK,
WILDA STARK.