

No. 666,430.

Patented Jan. 22, 1901.

J. L. MACKEY.
PAPER HANGING MACHINE.

(Application filed Aug. 4, 1900.)

(No Model.)

2 Sheets—Sheet 1.

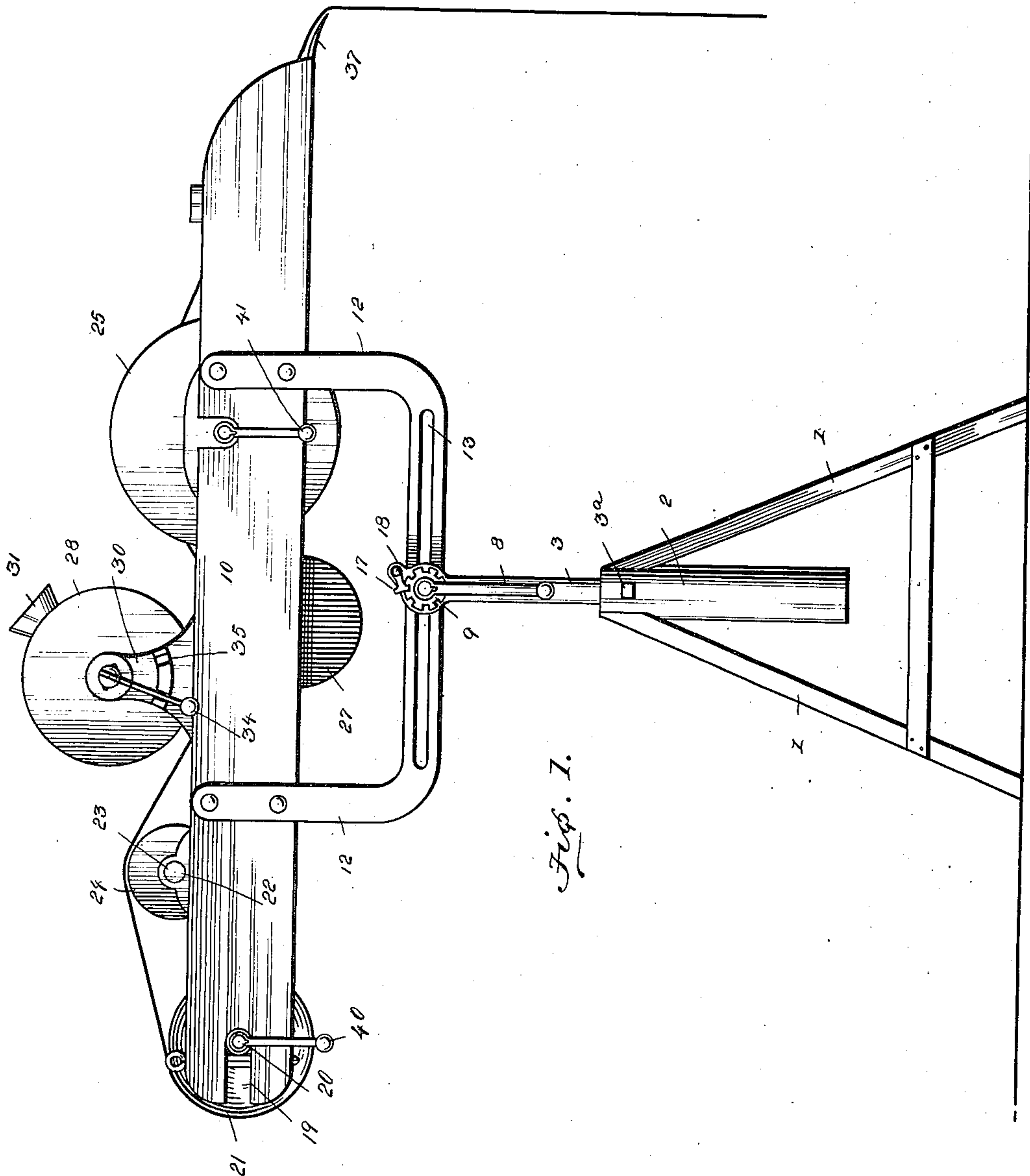


Fig. 1.

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2 Sheets—Sheet 2.

Fig. 2.

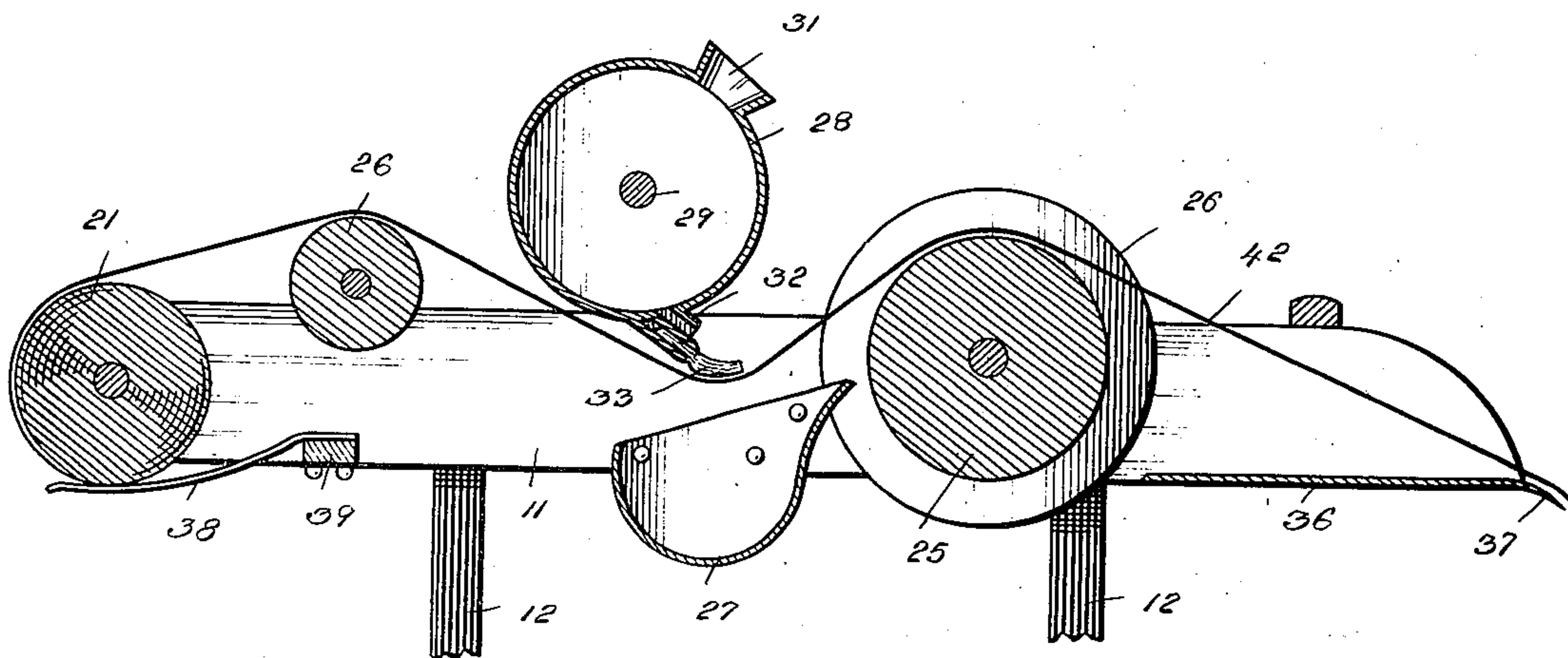
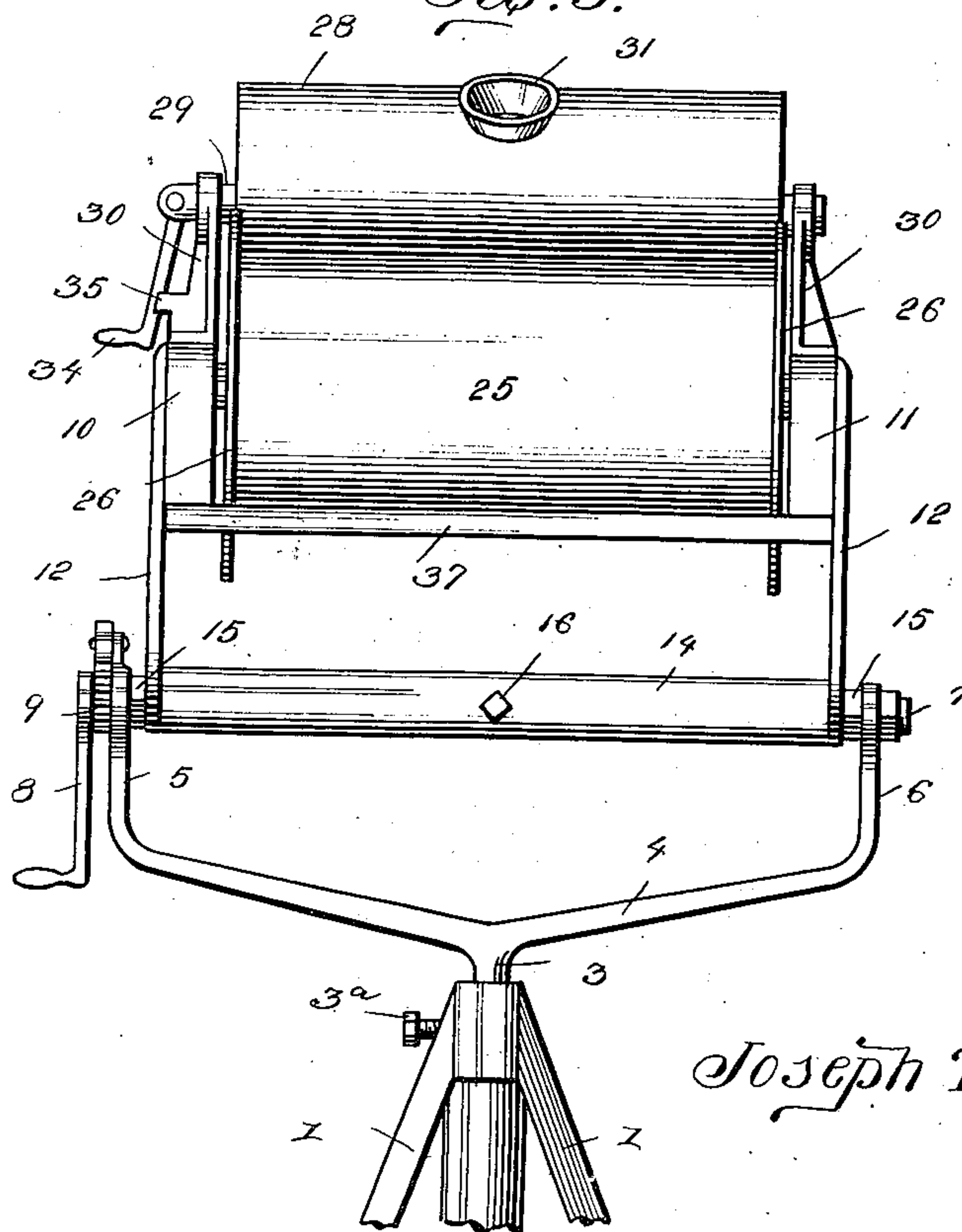


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOSEPH L. MACKEY, OF WALNUT GROVE, ILLINOIS.

PAPER-HANGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 666,430, dated January 22, 1901.

Application filed August 4, 1900. Serial No. 25,937. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH L. MACKEY, a citizen of the United States, residing at Walnut Grove, in the county of McDonough and State of Illinois, have invented certain new and useful Improvements in Paper-Hanging Machines; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to paper-hanging machines, the object being to provide a machine of this character of simple and durable construction which will be effective in use.

The construction of the machine will be fully described hereinafter in connection with the accompanying drawings, which form a part of this specification, and its novel features will be defined in the appended claims.

In the drawings, Figure 1 is a side elevation of a machine constructed in accordance with my invention. Fig. 2 is a longitudinal vertical section of the same, and Fig. 3 is an end elevation.

The mechanism is supported by diverging legs 1, secured together at their upper ends by a tubular socket 2, within which is adjustably secured the stem 3 of a yoke 4, the parallel arms 5 and 6 of said yoke being formed with bearings, through which extends a shaft 7, provided at one end with a crank 8 and having a toothed wheel 9 fixed thereon adjacent to the crank.

The frame of the machine comprises parallel side bars 10 and 11, from each of which depends a U-shaped bracket 12, said brackets being formed with elongated slots 13.

14 designates a sleeve the ends of which are recessed to fit over the edges of the brackets 12, and the shaft 7 extends through the sleeve 14 and through the slots 13 in the brackets 12. Nuts 15 serve to secure together the bracket-arms 5 and 6, the shaft 7, and the sleeve 14, and said shaft is also secured to the sleeve 14 by a set-screw 16. A pawl 17 is pivotally secured to a lug 18, projecting from the arm 5, said pawl being adapted to cooperate with the ratchet-wheel 9 on the shaft 7.

The side bars 10 and 11 of the frame are formed with bearings 19 at one end for the shaft 20 of a roll 21, which serves as the delivery-roll of the machine. The side bars 10 and 11 are also formed with bearings 22 for the shaft 23 of a roll 24, said roll 24 being elevated above the horizontal plane of the roll 21.

25 designates a roll, which is also supported in suitable bearings in the side bars 10 and 11 adjacent to the delivery end of the frame and provided at its ends with disks or flanges 26.

Between the rolls 24 and 25 a pan 27 is secured to the side bars 10 and 11, and above said pan 27 is arranged a revoluble hollow drum 28, supported upon a shaft 29, mounted in bearings formed in brackets 30, projecting from the outer sides of the side bars 10 and 11. This hollow drum or cylinder 28 is provided with a hopper 31 at its upper side and along its under side with a longitudinal discharge-spout 32, extending throughout the length of the drum or cylinder. Immediately below the discharge-spout 32 is arranged a brush 33, which also extends throughout the length of the drum or cylinder 28 and projects below the discharge-spout 32 in position to receive the paste or adhesive material contained within the drum or cylinder. The shaft 29, upon which the drum 28 is mounted, is provided at one end with a crank 34 to facilitate turning the drum, and said crank is adapted to engage ratchet-teeth 35, formed on the adjacent bracket 30, whereby the drum may be secured at different adjustments.

36 designates a plate which connects the ends of the side bars 10 and 11, said plate terminating at its outer end in a sharpened edge 37, which serves as a cutter for severing the paper.

A spring 38 is secured below the roll 21 upon a cross-bar 39, secured between the side bars and frame, and said spring bears upon the paper which is upon the roll 21, thereby tensioning the paper and thereby preventing too rapid a feed thereof.

The operation of the mechanism constructed as above described is as follows: The drum or cylinder 28 is supplied with paste and the paper is secured upon the roll 21, from whence it passes over the roll 24 and under the brush

33, over the roll 25, and finally over the plate 36. The rolls 21 and 25 are each provided with a crank 40 and 41, by means of which said rolls may be revolved. When the paper 5 42 is drawn forward in contact with the brush 33, the paste, as will be apparent, is applied thereto, and the strip of paper is ready for application to a wall or ceiling.

The slots 13 in the U-shaped brackets 12 permit the entire frame and rolls carried thereby to be adjusted horizontally, and the required adjustment of the frame upon its axial support is effected through the medium of the crank 8 and the pawl-and-ratchet devices 9 and 17. The vertical adjustment of the frame is accomplished by raising the stem 3 and securing it at any desired adjustment by the set-screw 3^a, which extends through the socket 2 and impinges against the stem 3.

20 The flanges 26 of the roll 25 serve as guards to prevent the escape of paste over the ends of said roll.

I claim—

1. A paper-hanging machine, comprising a 25 support; a yoke adjustably secured to said support; a frame consisting of parallel side bars; brackets depending from said bars, and having a pivotal connection with said yoke; means for securing the frame at different ad- 30 justments; rolls mounted on said frame; and paste-distributing devices carried by said frame.

2. A paper-hanging machine, comprising a 35 base or support; a yoke having a stem adjustably secured to said support; a frame consisting of parallel side bars; U-shaped brackets depending from said bar, and pivotally supported upon said yoke; means for securing the frame at different adjustments; rolls 40 mounted on said frame; and a paste drum or

cylinder revolvably mounted upon the frame, and provided with a longitudinally-disposed discharge-spout, and a brush located below said discharge-spout.

3. A paper-hanging machine, comprising a 45 support formed with a vertically-disposed socket; a yoke provided with a stem extending into said socket, and vertically adjustable therein; a frame consisting of parallel side bars; brackets depending from the side bars; 50 a sleeve or cylinder secured at its ends to said brackets; a shaft extending through said sleeve or cylinder; means for securing the frame at different adjustments; rolls mounted in bearings of the frame; and a drum or cyl- 55 inder revolvably mounted upon the frame and having a longitudinally-extending discharge-spout; a brush located below said discharge-spout; and a pan arranged transversely of the frame below said brush. 60

4. A paper-hanging machine comprising a support; a yoke formed with a stem which is adjustably secured to said support; a frame consisting of parallel side bars; rolls mounted in bearings of said bars; a transversely-ar- 65 ranged spring bearing upon one of said rolls; brackets depending from said side bars, and pivotally secured to said yoke; a revolvable hollow drum or cylinder mounted in brackets projecting from said side bars; means for se- 70 curing said drum or cylinder at different adjustments; and a pan arranged below said drum or cylinder.

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

JOSEPH L. MACKEY.

Witnesses:

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