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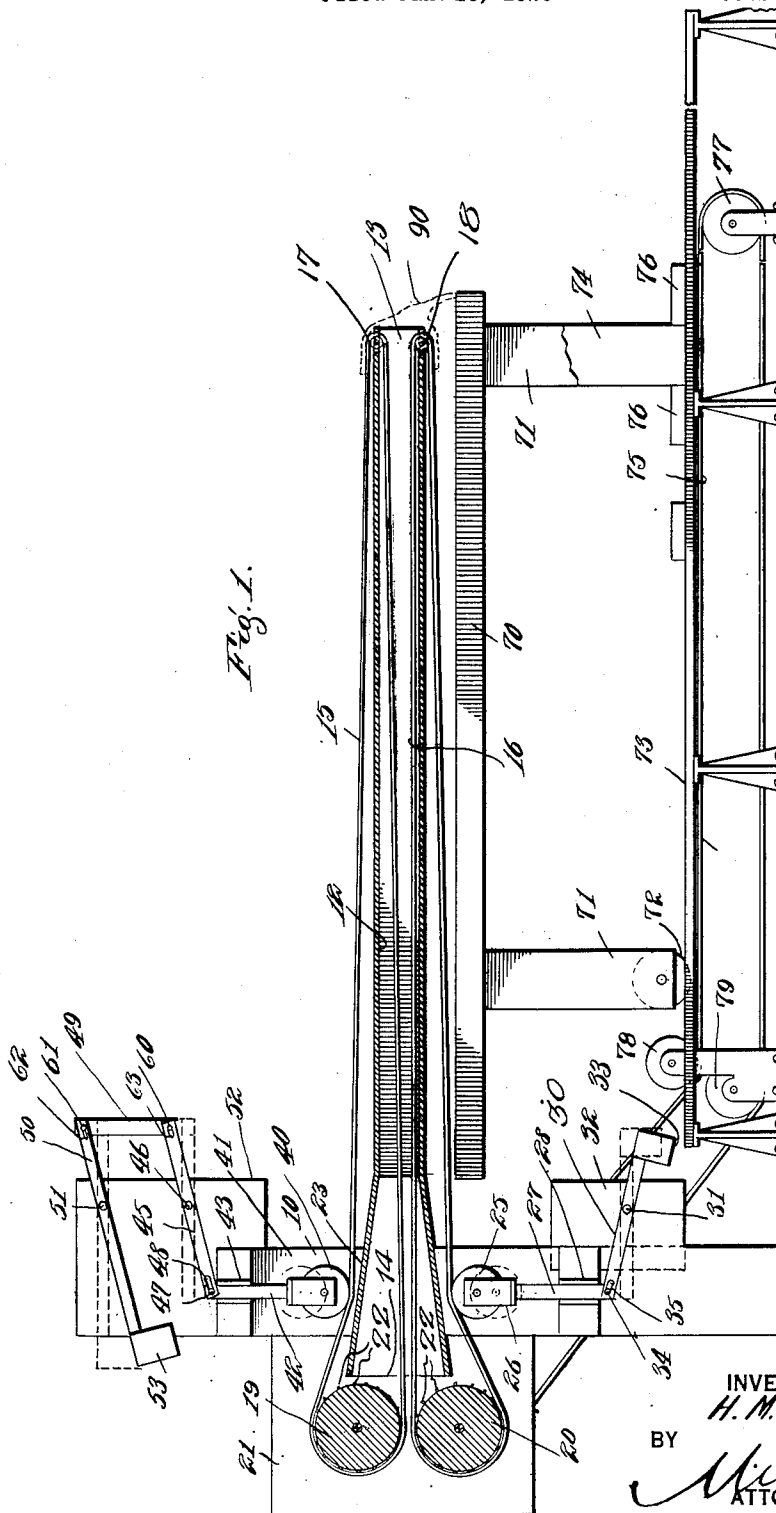
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H. M. SCOTT

UPHOLSTERY MACHINE

Filed Jan. 16, 1928

2 Sheets-Sheet 1



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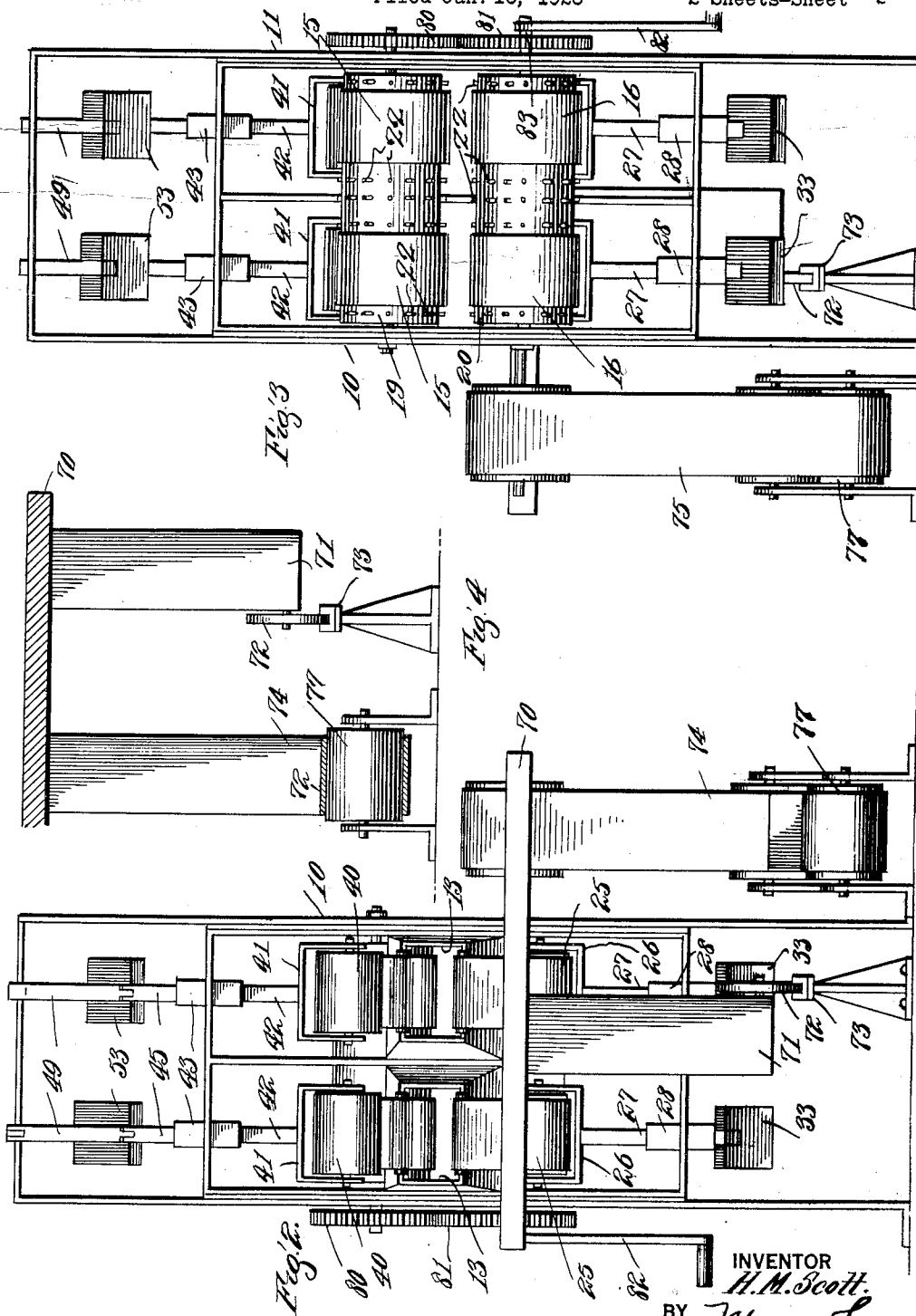
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2 Sheets-Sheet 2



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UPHOLSTERY MACHINE.

Application filed January 16, 1928. Serial No. 247,192.

This invention relates to a device for the production of cushions.

An object of the invention is the provision of a device for supplying an upholstery filler in piping which is adapted to be employed for use in cushions for automobile seats.

A further object of the invention is the provision of a device provided with a tube through which portions of travelling belts are adapted to move for forcing the filler into a piping which is mounted on the tube with means being provided for removing the filled piping progressively as the filler is fed into said piping.

This invention will be best understood from a consideration of the following detailed description in connection with the accompanying drawings; nevertheless, it is to be understood that the invention is not confined to the disclosure being susceptible of such changes and modifications as shall define no material departure from the salient features of the invention as expressed in the appended claims.

In the drawings:—

Figure 1 is a vertical section of the machine constructed according to the principles of my invention,

Figure 2 is a front end view of the upholstery machine,

Figure 3 is a rear end view in elevation of the machine,

Figure 4 is a fragmentary vertical section showing the supports for the table.

Referring more particularly to the drawings 10 and 11 designate side members of a frame which are adapted to be secured to the floor of a building, and to support the essential features of the upholstery machine. Secured to the side members in any approved manner is a tube 12 having the outer ends, as shown at 13 and 14, open through which are adapted to move endless belts 15 and 16. These belts are trained, respectively, around

pulleys 17 and 18 mounted for rotation at the outer end of the tube and also trained, respectively, around pulleys 19 and 20 mounted for rotation in brackets 21 extending rearwardly from the frame members 10 and 11. The last mentioned pulleys are located adjacent the inner open end 14 and are provided with spikes 22 adapted to engage the belts 15 and 16 for causing synchronized movements

of the belts. The inner ends of the tubes 12, as shown at 23, are expanded.

A belt tightener in the form of a pulley 25 is mounted in a yoke 26 carried by the arm 27 which is slidable in a guide 28 secured to a frame bar 10 or 11, as the case may be. A lever 30 is pivotally mounted at 31 on a bracket 32 and is provided with a weight 33 at its outer free end and connected by means of a pin 34 and a slot 35, to the arm 27. The weight of the member 33 forces the pulley 25 at all times into engagement with the belt 16.

A second series of belt tighteners in the form of pulleys 40 are rotatably mounted, respectively, in yokes 41. Each yoke is carried by an arm 42 slidably mounted in a guide 43 secured to a frame bar 10 or 11. A lever 45 is pivotally mounted at 46 and is connected to the arm 42 by means of a pin 47 and a slot 48. A link 49 connects one end of a lever 50 with one end of the lever 45 and the lever 50 being pivoted at 51 to a bracket 52 which extends laterally from a frame bar 10 or 11. The lever 45 is likewise pivoted on the bracket 52. A weight 53 is secured to one end of the lever 50 and tends to maintain the roller 40 in engagement with the belt 15. The link 49 is provided with pins 60 and 61 adapted to be received within slots 62 and 63, respectively.

A table 70 is slidably mounted beneath the pair of tubes 12 and has depending legs 71 provided with a roller 72 in the free end thereof, moving in guides 73. Located in alignment and in parallel relation with the legs 71 are a second set of legs 74 which rest upon a moving belt 75 and are maintained in place by means of cleats 76 and spaced sufficiently apart to receive the lower free ends of legs 74.

A belt 75 is trained over pulleys 77, 78 and 79 and is driven by means of a pulley 20 which is driven in synchronism with the pulley 19.

Pulleys 19 and 20 are driven through a pair of cooperating gears 80 and 81, and gear 81 is rotated by means of a crank 82 secured to a shaft 83 upon which the pulleys 20' are mounted.

It will be noted that pairs of tubes 12 together with their corresponding endless belts 15 and 16 and pulleys 19 and 20 are mounted relative to the table 70 so that a pair of pip-

ings may be supplied with the filler simultaneously. While I have shown two tubings, it will be appreciated that a plurality of such tubings may be employed for increasing the production.

The operation of my device is as follows:

The filler is fed between the rollers 19 and 20 which is carried through the open end 14 of the tube 12 by means of the belts 15 and 16, until it reaches the outer end 13 of the tube 12 where it is forced into a pipe 90 located in telescoping relation with the tube 12 and also with the outer portions of the belts 15 and 16. Since the outer portion of the belts move inwardly it will tend to move the piping inwardly and thus retain said piping in taut relation with the tube 12 so that said piping may be properly filled while the inner portions of the belts 15 and 16 move the filler into the outer free end of the piping. An end of the piping is connected in any approved manner to the table 7 so that when the table is moved outwardly the piping will be removed from the filling tube.

It will be appreciated that the timing of the belts 15 and 16 with respect to the belt 75 is such that the piping is removed from the tube 12 as it is properly filled by the belts 15 and 16.

I claim:

1. A device of the character described comprising a frame, a filler tube mounted on the frame and adapted to support a piping, endless belts trained through and around the tube, means for driving the belts, means for feeding a filler to a portion of the belts moving into the tube, said belts carrying the filler to the opposite end of the tube and forcing the same into a piping.

2. A device of the character described comprising a frame, a filler tube mounted on the frame and adapted to support a piping, endless belts trained through and around the tube, means for driving the belts, means for feeding a filler to a portion of the belts moving into the tube, said belts carrying the filler to the opposite end of the tube and forcing the same into a piping, and means for removing the piping progressively from the tube.

3. A device of the character described comprising a frame, a filler tube mounted on the frame and adapted to support a piping, endless belts trained through and around the tube, means for driving the belts, means for feeding a filler to a portion of the belts moving into the tube, said belts carrying the filler to the opposite end of the tube and forcing

the same into a piping, a table mounted for movement, said piping being connected with the table so that when the table is moved outwardly from the filler tube, the piping will be progressively removed from said tube.

4. A device of the character described comprising a frame, a filler tube mounted on the frame and adapted to support a piping, endless belts trained through and around the tube, means for driving the belts, means for feeding a filler to a portion of the belts moving into the tube, said belts carrying the filler to the opposite end of the tube and forcing the same into a piping, the inner or feeding end of the tube being expanded.

5. A device of the character described comprising a frame, a filler tube mounted on the frame and adapted to support a piping, endless belts trained through and around the tube, means for feeding a filler to a portion of the belts moving into the tube, said belts carrying the filler to the opposite end of the tube and forcing the same into a piping, rollers carried by the outer end of the tubing for supporting the belts in spaced relation, and rollers located adjacent the opposite end of the tube for supporting and driving the belts.

6. A device of the character described comprising a frame, a filler tube mounted on the frame and adapted to support a piping, endless belts trained through and around the tube, means for feeding a filler to a portion of the belts moving into the tube, said belts carrying the filler to the opposite end of the tube and forcing the same into a piping, rollers carried by the outer end of the tubing for supporting the belts in spaced relation, and means for maintaining the belts taut.

7. A device of the character described comprising a frame, a filler tube mounted on the frame and adapted to support a piping, endless belts trained through and around the tube, means for feeding a filler to a portion of the belts moving into the tube, said belts carrying the filler to the opposite end of the tube and forcing the same into a piping, rollers carried by the outer end of the tubing for supporting the belts in spaced relation, and rollers located adjacent the opposite end of the tube for supporting and driving the belts, means for synchronizing the movement of the table with the feeding belts.

Signed at Chickasha, in the county of Grady and State of Oklahoma, this 12 day of January, 1928.

HARRY MURPHY SCOTT.