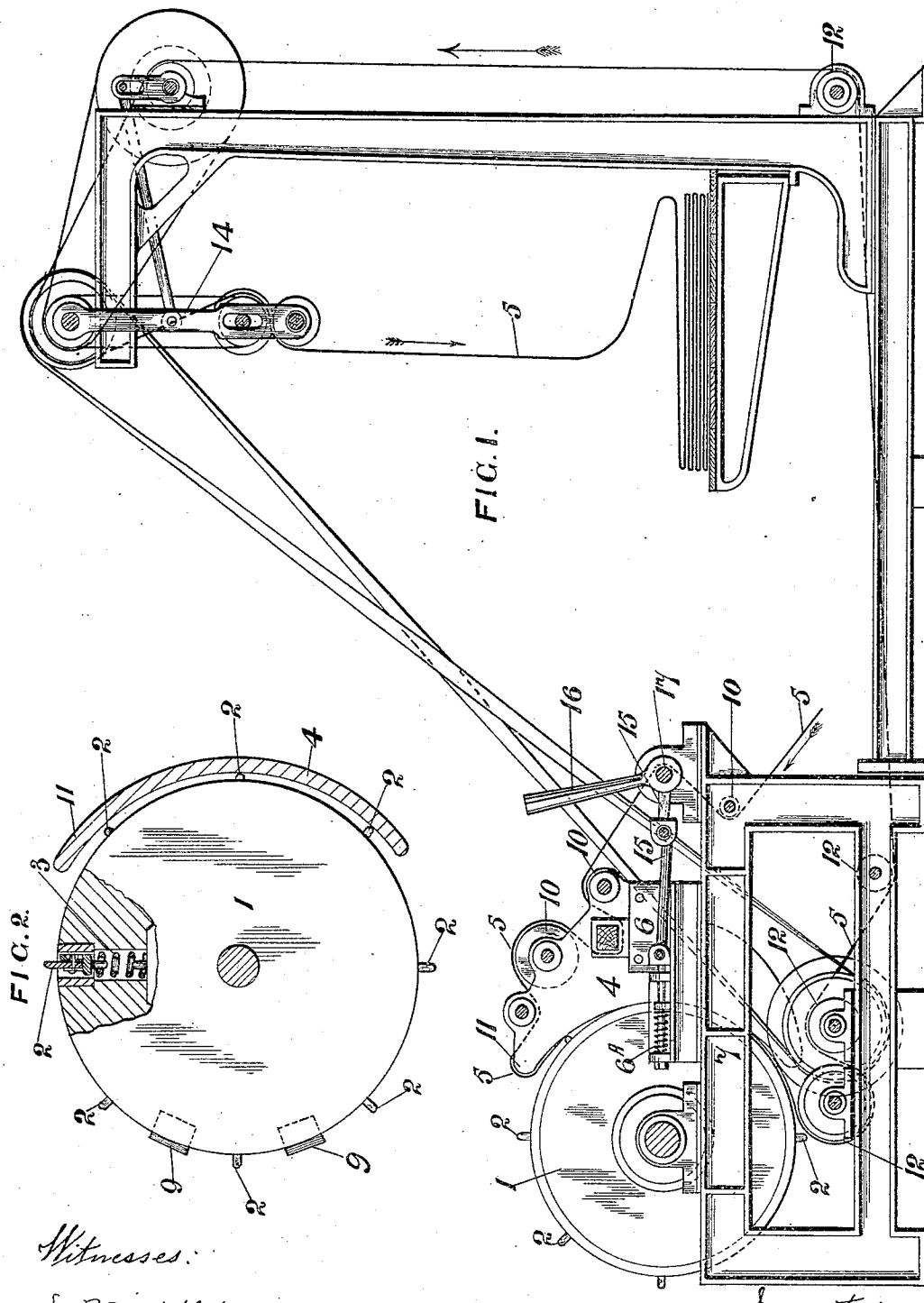


F. SHAW.
MACHINE FOR PEGGING VELVETS AND LIKE PILE FABRICS.
APPLICATION FILED MAY 1, 1909.

943,167.

Patented Dec. 14, 1909.



Witnesses:

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UNITED STATES PATENT OFFICE.

FRED SHAW, OF WHITEFIELD, NEAR MANCHESTER, ENGLAND.

MACHINE FOR PEGGING VELVETS AND LIKE PILE FABRICS.

943,167.

Specification of Letters Patent.

Patented Dec. 14, 1909.

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To all whom it may concern:

Be it known that I, FRED SHAW, residing at South avenue, Whitefield, near Manchester, in the county of Lancaster, England, have invented certain new and useful Improvements in Machines for Pegging Velvets and Like Pile Fabrics; and I do hereby 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.

This invention relates to improvements in machines employed for pegging velvets and like pile fabrics the object being to facilitate the process and apply the pressure of each peg to the fabric lightly at first and then with a gradually increasing pressure until the maximum is reached when the pressure is gradually decreased and as this takes place during the travel of the piece lines or shades on the surface are obviated and a better appearance is given to the finished piece.

The invention consists in the use in combination with a pegging drum and pegs of a concave bed or table the surface of which is slightly eccentric to the drum or the arc of the table is of larger diameter than the drum and these may be combined with any desired form of feed for the piece under operation.

Referring to the drawings which form a part of this specification:—Figure 1 is a side elevation of an improved pegging machine made in accordance with this invention. Fig. 2 is a sectional side or end elevation of the pegging drum and concave bed or table.

According to this invention I employ a drum or circular carrier 1 for the pegs 2 which are spaced and inserted at intervals in the circumference of the drum 1 and radiating therefrom each being carried upon or within a spiral or other spring 3 which tends to force the peg 2 outward from the drum 1 and so provides a yielding or elastic peg. The bed or table 4 over which the piece 5 passes during the pegging operation is of semi-circular or concave form (see Fig. 2) so as to nearly conform to the circumference of the drum 1 and pegs 2 and the bed or table 4 is carried by sliding brackets 6 on the opposite side frames 7 of the machine or it may be mounted upon hinges so that the proximity of the bed or table 4

to the pegging drum and therefore the pressure exerted on the piece 5 may be regulated. There may also be provided at intervals on the circumference of the drum 1 recesses 60 within which bars or blocks of wax 9 are carried so as to be brought into contact with the fabric 5 for waxing the pile.

The operation is as follows:—The piece 5 passes over guide rollers 10—10 to and over 65 the upper edge 11 of the bed or table 4 then over the inner face of the bed or table 4 to other guide rollers 12—12 and forward to an ordinary cuttle 14. As the piece 5 passes over the bed 4 the surface of the fabric is 70 exposed and subjected to the “pegging” or to the waxing and “pegging” process through the rotation of the “pegging” drum 1.

The concave face of the bed or table 4 is 75 not wholly concentric to the drum 1 and pegs on the upper and lower parts of the bed leave some additional space or clearance so that the action of the pegs 2 upon the fabric 5 is accentuated or gradually exerted to about 80 the center portion of the bed or table 4 and then gradually decreased during the remainder or finishing contact of the pegs as the piece 5 passes off the bed or table 4.

The pegging bed 4 is mounted on the slides 85 6 or on hinges and the slides or hinge mountings are preferably kept up to the working position by springs 6^a or elastic cushions so as to give way or operate as a safety device and prevent damage to the pegs or piece in 90 the event of any obstruction or foreign body interposing between the pegging drum 1 and the bed or table 4.

A convenient method of adjusting the bed or table 4 to the drum 1 is shown in Fig. 1 95 where the sliding brackets 6 are connected by links 15—15 to an eccentric or crank on the shaft 17 and by simply manipulating the handle or lever 16 the amount of pressure of the pegs 2 on the piece 5 is determined. 100

In practice I have found that if the piece 5 moves at the rate of twenty yards per minute or thereabout and the pegging drum 1 at five hundred yards per minute or thereabout good results are obtainable but the 105 relative speeds must be regulated according to the nature of the piece under operation.

Having now described my invention what I claim as new and desire to secure by Letters Patent is:—

1. In a machine for finishing pile fabric, the combination, with a revoluble drum pro-

110

vided with a series of spring-pressed pegs which project radially from its periphery, of a curved pegging-bed of rigid material arranged adjacent to the said drum, the middle
5 part of the said bed being arranged nearer to the drum than its end portions, and means for sliding the fabric between the said bed and drum.

2. In a machine for finishing pile fabric,
10 the combination, with a revoluble drum provided with a series of spring-pressed pegs which project radially from its periphery, of a curved pegging-bed of rigid material arranged adjacent to the said drum, the middle

part of the said bed being arranged nearer to 15 the drum than its end portions, a supporting frame for the drum and bed, slides carried by the frame and having the pegging-bed secured to them, springs interposed between the said slides and the frame, and means for 20 sliding the fabric between the said bed and drum.

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

FRED SHAW.

Witnesses:

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JOHN S. BENTLEY.