

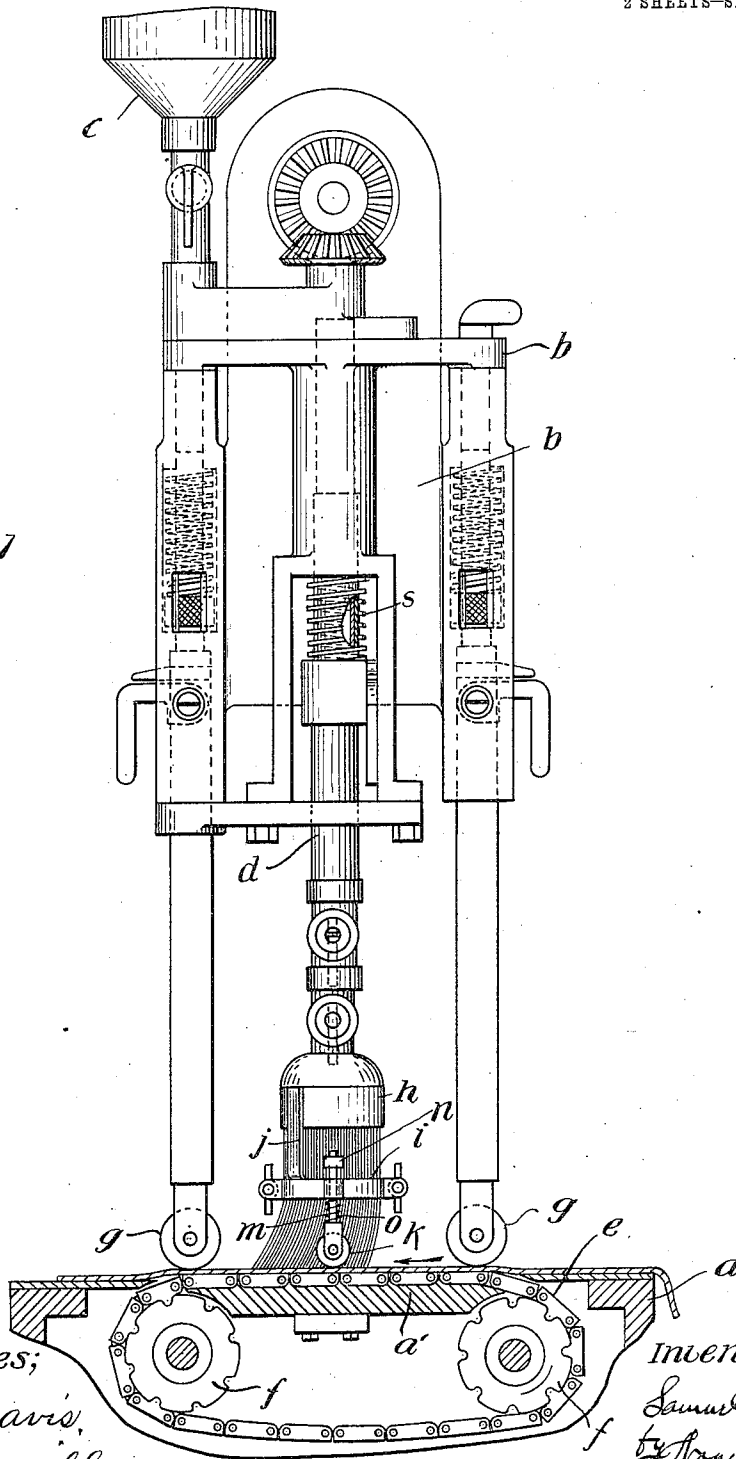
S. LIPSON.
GARMENT CEMENTING MACHINE.
APPLICATION FILED SEPT. 8, 1911.

1,051,136.

Patented Jan. 21, 1913.

2 SHEETS—SHEET 1.

Fig. 1



witnesses;
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J. L. O'Neill

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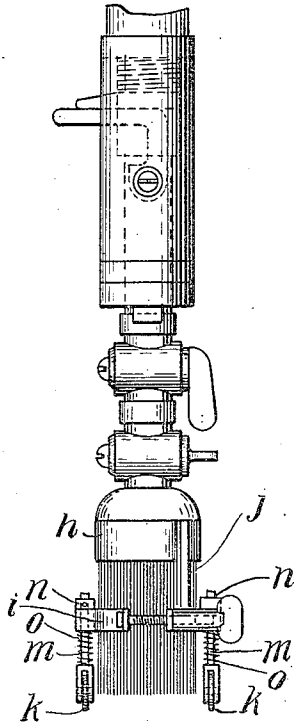


Fig. 2

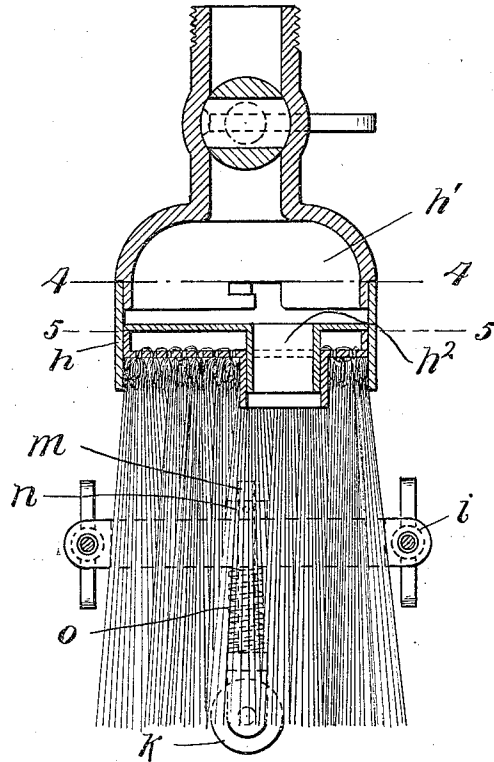


Fig. 3

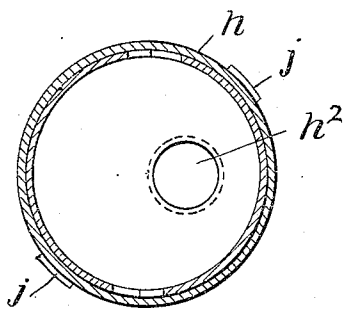


Fig. 4

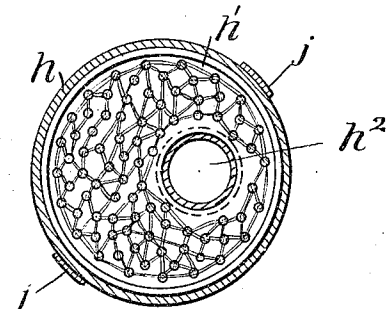


Fig. 5

Witnesses:

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J. L. O'Neill

Inventor:

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UNITED STATES PATENT OFFICE.

SAMUEL LIPSON, OF SAUGUS, MASSACHUSETTS, ASSIGNOR OF ONE-THIRD TO HARRY ROSENBERG AND ONE-THIRD TO JACOB ROSENBERG, OF BOSTON, MASSACHUSETTS.

GARMENT-CEMENTING MACHINE.

1,051,136.

Specification of Letters Patent.

Patented Jan. 21, 1913.

Application filed September 8, 1911. Serial No. 648,414.

To all whom it may concern:

Be it known that I, SAMUEL LIPSON, a citizen of the United States, residing at Saugus, in the county of Essex and State of Massachusetts, have invented an Improvement in Garment-Cementing Machines, of which the following is a specification.

This invention relates to certain improvements in the machine disclosed in my prior Patent #642,344, and more particularly to certain improvements in the means for delivering and applying the cement to the work by means of a fountain brush, which is especially adapted for use in applying thereto readily flowing cement. In the device of said prior patent, a cement applying means, of the above described character was employed, but said device did not operate satisfactorily for the reason that the drag of the brush, on the material which was being cemented, was not uniform and was so great that it was difficult, or practically impossible to feed the material as rapidly as was desired, or without causing it to become wrinkled and pulled out of position, so that uniform application of the cement to the surface, at the points desired, was prevented.

The object of the present invention is to provide a cementing means applicable to the brush-applying means above referred to, which will enable the work to be fed evenly and smoothly beneath the brush, and which will cause the brush frictionally to engage the work with practically the same force under all conditions, and will also cause the work to be fed rapidly and smoothly beneath the brush. I accomplish this object by the means shown in the accompanying drawing, in which,

Figure 1 is an elevation of the head of a machine, such as is shown in my said prior patent. Fig. 2 is an elevation of the cement-applying device provided with my improvements. Fig. 3 is an enlarged sectional view thereof. Fig. 4 is a sectional view on the line 4—4, of Fig. 3. Fig. 5 is a similar view on the line 5—5 of Fig. 3.

In the drawing *a* indicates the table of the machine and *b* the head thereof, on which the cement-feeding devices are arranged, *c* indicating the cement tank and *d* the tube into which the cement is fed, said tube being adapted to reciprocate vertically and a spring *s* being provided for pressing said tube downward. An endless table *e*, in the

form of a link chain, is arranged to be fed over the feed-rollers *f*, and over a supporting portion *a'* of the table, slightly above the level of the surface of the table, and presser rolls *g* are arranged to bear on the table adjacent the middle thereof in front of and in rear of said tube *d*, to provide a frictional engagement between the table and the work. A fountain brush *h* is connected to the lower end of the tube *d*, directly between said rolls *g*, said brush having a hollow base, providing a chamber *h'* therein from which a tube *h²* leads, so as to deliver the cement into the brush adjacent the base of the bristles thereof, the brush operating in the manner common to brushes of this type.

I have found, in practice, that the feeding means already described is insufficient to provide a proper feeding of the work beneath the brush, as the drag of the bristles is so great that the material, which is oftentimes thin and easily pulled out of shape, is wrinkled so that the cement is not evenly applied.

According to my invention I provide a two-part ring *i* which is adapted to be clamped about the brush near the face of the bristles thereof to act as bridle therefor, said ring being rigidly connected to the base of the brush by means of one or more arms *j*. A pair of rolls *k* are mounted in forks on the lower ends of a corresponding pair of rods *m*, said rods being mounted to reciprocate vertically in the ring *i*, and having stop collars *n* at their upper ends to limit the downward movements thereof. Springs *o* are provided between a shoulder on the lower end of each rod and the under side of the ring *i*, for pressing said rollers downwardly, said stops *n* being arranged so that said rollers *k* may be pressed by their respective springs a short distance below the level of the lower end of the brush. With this arrangement, when the work is fed beneath the brush, said rolls *g* and *k* will bear on the work in front and in the rear of, and closely adjacent the side edges of the brush, thus pressing it firmly on the feeding table *e*, at all sides of the brush, so that the work will be frictionally engaged by and fed by the table, as the table moves, and the frictional engagement of the brush on the work will be overcome. The work will also be held flat and smooth, so that the cement will be evenly applied. The rolls *k* with their

supporting means, also act to support the brush in a constant relation to the surface of the work, so that the brush is always pressed thereagainst with approximately the same force and the drag of the brush on the work is uniform. The manner in which the brush operates, in applying the cement, also does not appreciably vary under normal conditions.

10 I claim:—

In a cementing-machine, a vertically movable, downwardly actuated cementing brush, a depending arm mounted on the base thereof, a bridle ring extending about the brush

and supported on the end of said arm, a pair of rods mounted to reciprocate vertically in said ring at opposite sides thereof and having supporting rollers in their lower ends, and springs on said rods for holding said rolls adjacent the face of the brush, substantially as described. 15 20

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

SAMUEL LIPSON.

Witnesses:

L. H. HARRIMAN,

H. B. DAVIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
