

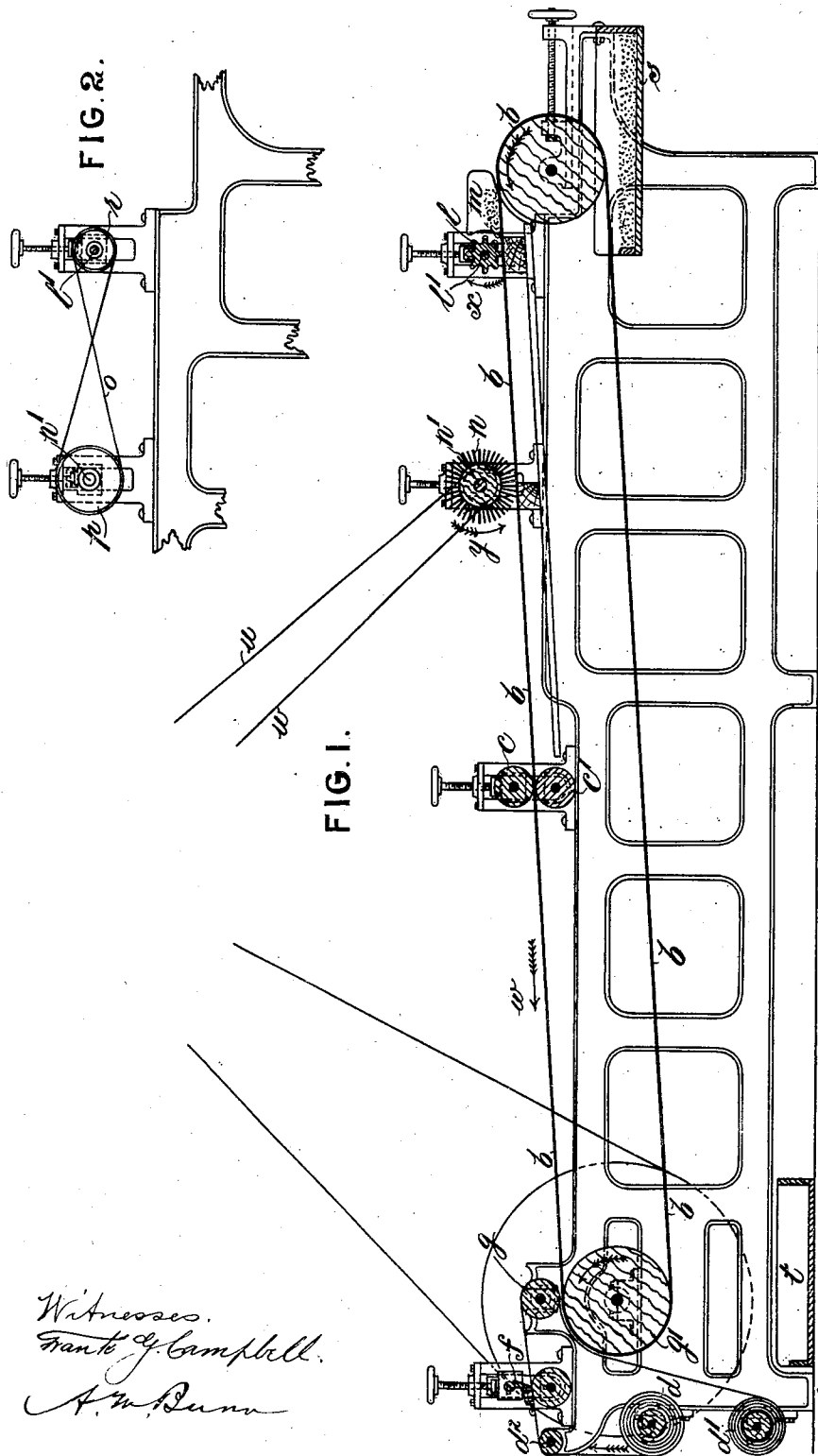
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H. MARKUS.

MACHINE FOR COATING FABRICS WITH FINELY COMMUNUTED MATERIALS.

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Witnesses.
Frank G. Campbell.
A. M. Dunn

Inventor
Harris Markus
By
W. H. Baker
Attorney.

UNITED STATES PATENT OFFICE.

HARRIS MARKUS, OF MANCHESTER, ENGLAND.

MACHINE FOR COATING FABRICS WITH FINELY-COMMINUTED MATERIALS.

No. 813,564.

Specification of Letters Patent.

Patented Feb. 27, 1906.

Application filed October 5, 1905. Serial No. 281,456.

To all whom it may concern:

Be it known that I, HARRIS MARKUS, a subject of the King of Great Britain and Ireland, and a resident of 392 Bury New road, Manchester, county of Lancaster, England, have invented a certain new and useful Improved Machine for Coating Fabrics with Finely-Comminuted Materials, (for which I have filed application for British Patent No. 21,822, dated October 11, A. D. 1904;) 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 an improved machine for coating fabrics with ground flocks or other like materials by first spreading them on a temporary support and then transferring them therefrom to an adhesive final support. The material is laid on the endless temporary support by hand or by means of a sieve or shaker and is first subjected to the action of a rotating fluted roller bearing on the temporary support and on the flock and then to the action of a rotating brush, which further aids in evenly distributing the facing material on the temporary support prior to passing under the squeezing-rollers.

Preferably the rotating brush and the fluted roller above described are caused to rotate in opposite directions by driving one from the other by means of a crossed belt or other connecting media producing the same effect.

In the drawings, Figure 1 is a sectional elevation of a machine constructed in accordance with this invention. Fig. 2 is an elevation of one end of Fig. 1, illustrating the driving of the fluted roller and rotatable brush.

In the figures, *b* is the endless traveling sheet or temporary support operated in the usual manner and traveling in the direction of the arrow *w*. The flocks are laid on the temporary support at *m* and are first subjected to the action of a rotating fluted roller *l* and then to the action of the rotating brush *n*, which is driven by a belt *u*. When the flocks have been evenly distributed on the temporary support *b* by the fluted roller *l* and rotating brush *n*, they are then carried to the

squeezing-rollers *c c'*. The ground fabric which forms the final support passes from a roller at *d* over a guide-roller *d'* and under a doctor *f*, which spreads the layer of adhesive substance, such as a solution of india-rubber in naphtha. Immediately after spreading the coated fabric is turned down over the roller *g* onto the temporary support *b*, and the two, together with the intervening flocks or facing material, pass between the pressing-rollers *g g'*. Here the sticky ground fabric picks up the flock from the temporary support *b* and is rolled up at *d'*.

In some cases the fabric immediately after receiving the flock may be caused to pass over a suitable drying-cylinder before being rolled up onto the roller *d'*.

In order to more evenly distribute the flocks on the temporary support *b*, the rotatable brush *n* and the fluted roller *l* are driven in opposite directions, as shown by the arrows *x* and *y*, by means of a crossed belt *o*, taking over pulleys *p* and *r* on the ends of the shafts *n'* and *l'*, as shown in Fig. 2.

When feeding the flocks by hand, they may be placed in a box *s*, carried by the machine-frame and lifted therefrom by means of a scoop or the like onto the temporary support at *m*.

A box *t* may be provided to catch any superfluous flocks that fall from the traveling temporary support *b* when passing over the roller *g'*.

What I claim as my invention, and desire to secure by Letters Patent, is—

A machine for coating fabrics with flock or the like materials having in combination a traveling temporary support *b*, a fluted roller *l*, a brush *n*, pressing-rollers *c, c'*, and means for spreading the adhesive material on the final support and transferring the flock from the temporary support, the whole constructed and operating substantially as hereinbefore described and shown.

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

HARRIS MARKUS.

Witnesses:

G. W. TUNSTALL,
JOHN HALL.