

UNITED STATES PATENT OFFICE.

D. PRATT AND R. PRATT, OF ELMIRA, NEW YORK.

APPARATUS FOR APPLYING FLOCKS TO CLOTH.

Specification of Letters Patent No. 8,405, dated October 7, 1851.

To all whom it may concern:

Be it known that we, D. PRATT and R. PRATT, of Elmira, in the county of Chemung and State of New York, have invented a new and Improved Machine for Flocking Cloth; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1, is a plan or bird's eye view. Fig. 2, is a transverse vertical section taken at the line X, X, in Fig. 1.

Similar letters of reference indicate corresponding parts in each of the several figures.

The nature of our invention consists in passing the cloth underneath a revolving screen, said screen containing the flock which is prevented from being packed, and kept in a tight state by means of a beater within the screen; the flock falls through the screen upon the cloth which passes between the corrugated rollers, said rollers working the flock, in a measure, into the texture of the cloth, and preparing it for the operation of fulling.

To enable others skilled in the art to make and use our invention we will proceed to describe its construction and operation.

A, A, is the frame of the machine constructed in any suitable manner.

B, B, B', are corrugated rollers placed upon the frame as seen in Fig. 2; the grooves and projections running longitudinally on their peripheries as seen in Fig. 1.

C, Fig. 1, is the driving pulley attached to the axis or shaft of the lower roller, the lower roller meshing into the two upper rollers (see Fig. 2) and consequently communicating motion to them.

D, is a cylindrical screen that is formed by attaching a wire sieve around pulleys, the pulleys being a suitable distance apart and forming the ends of screen.

E, is a shaft which passes longitudinally through the center of the screen, the screen runs loosely upon this shaft E.

F, is a belt passing around the pulley G, at the end of the screen and the pulley H, on the end of the roller B', by this means motion is given to the screen.

I, is a belt passing around the pulley J, and driving pulley C, giving motion to the shaft E, which sets in suitable bearings *e, e*, on the frame A, A. See Fig. 1. The beater is formed by the cross pieces *g, g*, passing through the shaft E, and placed at a suitable distance apart, the ends of the cross pieces are connected by wires *h, h*, see Fig. 1.

K, is the piece of cloth to be flocked represented in red lines; this is placed around the under corrugated roller and around a small roller L, and the ends of the cloth are fastened together.

Operation: Motion being communicated to the machine, the corrugated rollers B, B, B', revolving screen D, shaft E, and beater, and the cloth K, move in the direction indicated by the arrows, it will be seen that the screen D, and the shaft E, with beater move in contrary directions, and the flock in the screen is well loosened, by the beater, the flock passes through the screen as it revolves and falls upon the cloth K, just before it passes between the corrugated rollers B, B, B', the corrugated rollers working the flock to a certain extent, into the cloth as it passes through them. The cloth is thus prepared for the fulling mill.

M, Fig. 2, is a trough which holds the cloth or that part of the cloth which is not passing over the rollers.

The ordinary way of flocking cloth preparatory to fulling, is to spread out the piece of cloth on the floor and brush the flock into it with a broom, that much labor and expense is saved by our machine need scarcely be mentioned.

Having thus described the nature and operation of our invention, what we claim as new and desire to secure by Letters Patent, is—

The revolving screen D, having a beater within it on a shaft E, as described, in combination with the corrugated rollers B, B, B', constructed and operating in the manner and for the purpose substantially as set forth.

DANIEL PRATT.
RANSOM PRATT.

Witnesses:

WILLIAM P. KINKLE,
EDWARD COVELL.