(No Model.)

D. GESSNER.

CLOTH PRESSING MACHINE.

No. 411,143. Patented Sept. 17, 1889.

FIG. 1

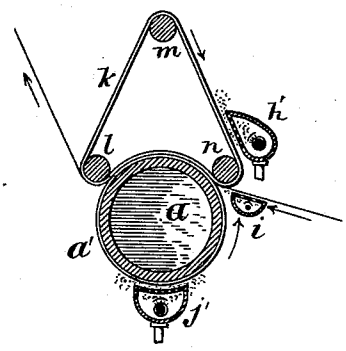
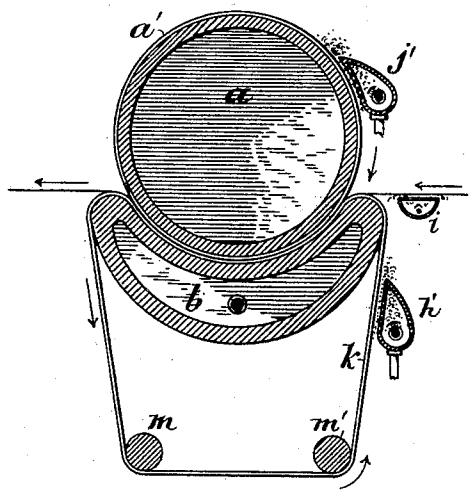


FIG. 2



Witnesses
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UNITED STATES PATENT OFFICE.

DAVID GESSNER, OF WORCESTER, MASSACHUSETTS.

CLOTH-PRESSING MACHINE.

SPECIFICATION forming part of Letters Patent No. 411,143, dated September 17, 1889.

Application filed August 21, 1888. Serial No. 283,345. (No model.)

To all whom it may concern:

Be it known that I, DAVID GESSNER, of Worcester, in the State of Massachusetts, have invented a new and useful Improvement in Cloth-Pressing Machines, of which the following is a specification.

In the drawings, Figure 1 represents a cross-section of the cylinder, the endless apron and the rollers supporting the same, and the steamers of a cloth-pressing machine embodying my invention. Fig. 2 represents a like section of a modification.

A machine in which this invention may be usefully applied is illustrated in Patent No. 387,290, dated August 7, 1888.

In each of the figures, *a* is the cylinder, which is covered with a woven felted jacket *a'* of ordinary construction. The cylinder is hollow, as shown, so as to be heated internally by steam.

Referring to Fig. 1, *k* is an endless absorbent apron which passes around the rollers *l m n*, by which it is pressed upon the surface of the felt jacket *a'* between the rollers *l* and *n*. A steamer *h'* is arranged so as to throw steam upon the surface of this apron, which will come next to the felt jacket *a'*, and a steamer *j'* is arranged to throw steam upon the felt jacket which envelops the cylinder. Thus the adjacent surfaces of the jacket and apron between which the cloth passes, as indicated by the arrows, will be moistened, and the cloth on being pressed will, at the same time, be subjected to moisture on both sides. The rollers *l* and *n* may be so placed as to produce pressure against the surface of the cylinder in addition to the pressure which is produced by the tension of the apron above the cylinder.

In Fig. 2 the arrangement last described is practically inverted with the addition of the bed-plate *b*, which takes the place of the rollers *l* and *n* in pressing the apron *k* against the felt jacket of the cylinder. The bed-plate *b* is made hollow, so as to be interiorly heated by steam.

i in each figure is a steamer, which may be used to moisten the cloth itself just before pressure between the absorbent jacket and apron. Any of the steamers shown may be used without the others, or they may be all used together, depending upon the fabric being treated.

I do not desire to limit myself to the form of mechanism described and shown, but desire to include variations in form which embody the principle of my invention.

I claim—

1. In combination, the cylinder, the apron co-operating therewith, the jacket enveloping the cylinder, a moistening device co-operating with said apron, and a moistening device co-operating with said jacket, substantially as described.

2. In combination, the cylinder, a pressing device co-operating therewith, a jacket enveloping the cylinder, an apron covering the face of the pressing device, a steamer co-operating with said jacket, and a steamer co-operating with said apron, substantially as described.

3. In combination, the cylinder, the absorbent traveling surface co-operating therewith, the jacket enveloping the cylinder, a moistening device arranged to moisten said absorbent traveling surface upon the face thereof which comes next to the jacket, and a moistening device arranged to moisten said jacket, substantially as described.

4. In combination, the cylinder provided with an internal chamber for heating, the jacket enveloping the same, the absorbent traveling pressing-surface co-operating therewith, a moistening device arranged to moisten said jacket, and another to moisten said absorbent traveling surface, substantially as described.

5. In combination, the cylinder, the jacket enveloping the same, the absorbent traveling pressing-surface co-operating therewith, and moistening devices arranged to moisten, respectively, the jacket, the absorbent traveling pressing-surface, and the cloth as it is about to be pressed, substantially as described.

6. In combination, the cylinder, the jacket enveloping the same, the absorbent traveling pressing-surface co-operating therewith, and a moistening device arranged to moisten the jacket, substantially as described.

7. In combination, the cylinder, the jacket enveloping the same, the absorbent traveling pressing-surface co-operating therewith, and

a moistening device arranged to moisten the cloth before receiving pressure between the absorbent traveling surface and the jacket, substantially as described.

8. In combination, the cylinder, the jacket enveloping the same, the absorbent traveling pressing-surface co-operating therewith, and a moistening device arranged to moisten said traveling pressing-surface, substantially as described.

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Witnesses:
GEO. C. PARKER,
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