

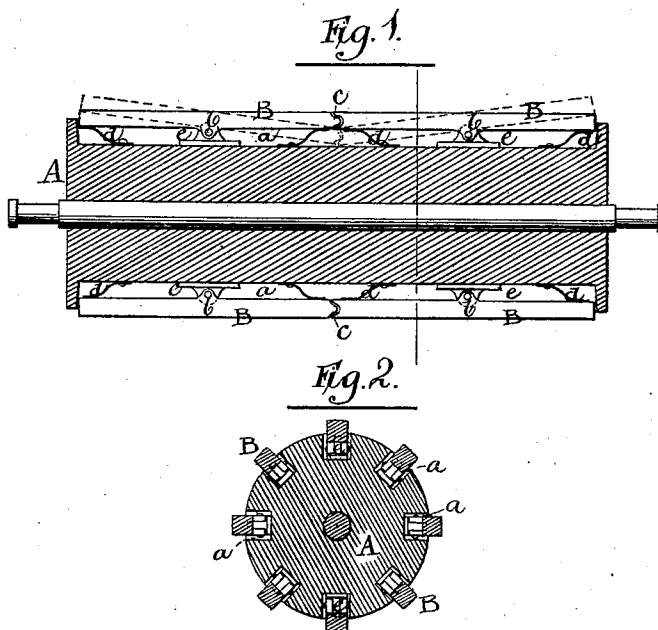
(No Model.)

A. PELISSE.

MACHINERY FOR FELTING HAT BODIES.

No. 253,420.

Patented Feb. 7, 1882.



Witnesses:-

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MACHINERY FOR FELTING HAT-BODIES.

SPECIFICATION forming part of Letters Patent No. 253,420, dated February 7, 1882.

Application filed April 6, 1881. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTE PELISSE, of the city of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Machinery for Felting Hat-Bodies and other Articles and Materials, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates especially to that description of felting-machine the principal elements of which are a series of rollers having their axes parallel, or nearly so, and between which a roll of hat-bodies or other articles or material to be felted is placed and subjected to a rolling operation.

The invention consists in the combination, with a roller for a felting-machine having grooves in its periphery, of lags pivoted in said grooves and adapted to move inward and outward therein. The adjacent ends of said lags are preferably matched together, so that they will move inward and outward together, and springs are preferably employed to force them outward.

Figure 1 is a longitudinal section of a felting-machine roller constructed according to my invention, and Fig. 2 is a transverse section of the same in the line *x x*, Fig. 1.

A is the body of the roller, having in its periphery the longitudinal grooves *a a*, containing the movable lags B B. Two lags are represented in each groove, each lag being about half the length of the groove, and each being pivoted at about the middle of its length within the groove. The grooves are so deep that the lags may swing inward and outward therein on their pivots *b b*. The adjacent ends of the pair of lags B B in each groove are notched and toothed together, as shown at *c c*, or otherwise so matched that the said ends will move inward and outward together. Springs *d d*

are applied within the grooves *a a*, under and behind the ends of the lags, for the purpose of pressing them outward. The pivoting of the lags to the rollers is represented as effected by fitting their pivots *b b* into small foot-pieces or cleats *e e*, which are inserted into the grooves *a a*. When these rollers are in operation the springs allow the lags to yield to the thicker portions of the roll of hat-bodies or other articles or material undergoing the felting operation between the rollers. These thicker portions will generally be near the middle of the length of the rollers, where the ends of the lags meet, and will press inward the adjacent ends of each of the two lags in one groove, as shown in dotted outline at the top of Fig. 1, and so cause the outer ends of the lags to be pressed outward against the thinner portions of the end of the roll. The profile formed by the outer edges of the two lags will then be concave. The lags thus conforming to the longitudinal form of the roll will felt all portions uniformly.

All of the rollers in a felting-machine may be grooved and furnished with movable lags, as described; or one or more may be of that construction and the other or others either have fixed lags or be without lags.

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

1. The combination, with a felting-roller having grooves in its periphery, of lags pivoted within the said grooves, substantially as herein described.

2. The combination, with the grooved roller A, of the pairs of pivoted lags B B, matched at their adjacent ends, and the springs *d d*, substantially as herein described.

A. PELISSE.

Witnesses:

A. C. SEELEY,
A. SAUER.