

P A. DAILEY.
 Manufacture of Ornamental Felt Skirts.

No. 198,356.

Patented Dec. 18, 1877.

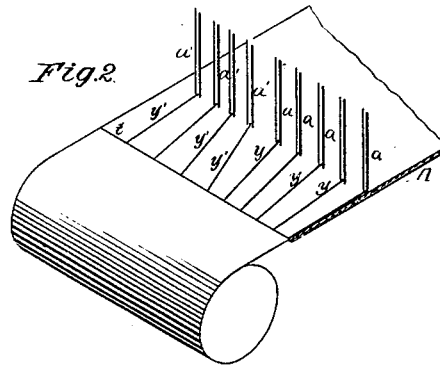


Fig. 1.

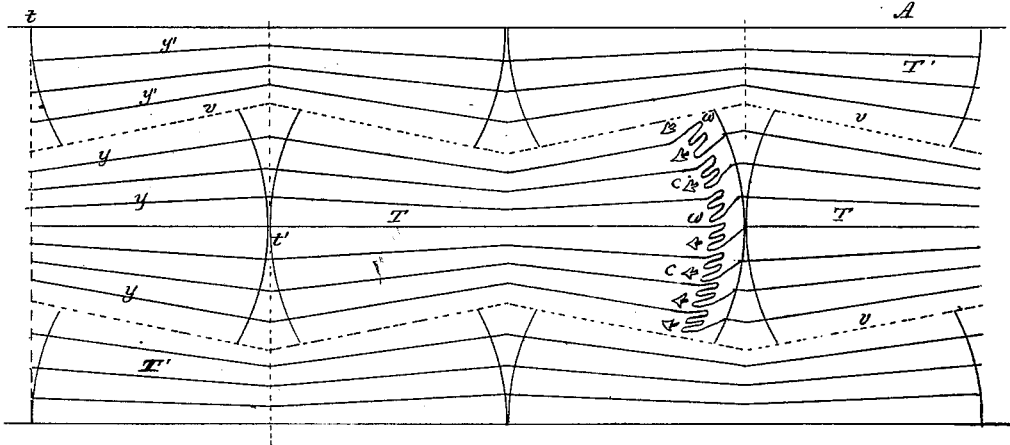
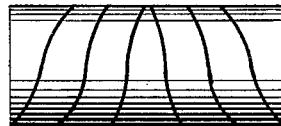


Fig. 3.



Attest:

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PARLEY A. DAILEY, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN THE MANUFACTURE OF ORNAMENTED FELT SKIRTS.

Specification forming part of Letters Patent No. **198,356**, dated December 18, 1877; application filed November 6, 1877.

To all whom it may concern:

Be it known that I, PARLEY A. DAILEY, of Brooklyn, Kings county, New York, have invented Improvements in the Manufacture of Skirts, of which the following is the specification:

My invention relates to the manufacture of that class of felt skirts in which the pattern is formed by threads, slivers, or fibers incorporated and felted with a bat; and my invention consists in constructing the skirts from a continuous bat, in the manner described hereinafter, so as to avoid the waste and expense incident to other modes of manufacture.

In the drawings, Figure 1 is a plan view, showing the manner in which the pattern is formed on the bat; Fig. 2, a perspective view, illustrating the operation of mechanism for laying the pattern-threads; and Fig. 3, a modification.

Instead of cutting a series of gores from a piece of cloth, and then ornamenting each gore, as usual, I first form a continuous bat of felt, A, upon which I deposit the fibers, yarns, pieces, &c., which are to constitute the pattern, in such relative positions that when the same are incorporated with the bat and a homogeneous fabric is formed the patterns will be in such relative positions that the strip may be cut with but little waste into gores of the requisite shape, suitably ornamented.

While the pattern materials may be suitably arranged by hand, the mode proposed is mainly advantageous where mechanical appliances are used for effecting the result.

Different mechanisms may be thus used—as, for instance, a series of carriers, *a a'*, beneath which the bat is passed, while each carrier has a lateral or other motion requisite to deposit a thread or sliver in proper relation to the others to form the pattern. Thus the carriers *a a'*, which lay the threads *y*, (beginning at the line *t*), will gradually diverge until they reach the line *t'*, when they will be

drawn together, while the carriers *a'*, which lay the threads *y'*, will approach until they reach the line *t'*, and will then diverge. This will lay the pattern-threads in radiating lines, so disposed upon different sections of the cloth that when the latter is cut on lines *v*, which may be defined by threads, each section will be a gore, T, or half-gore T', properly shaped, with the ornaments rightly disposed.

Where skirts with ornamental edges are to be formed, the threads may be carried across each other, as shown at *w*, Fig. 1.

Instead of a series of carriers a roller, with spiral grooves to receive the threads, or with openings to carry the flock or piece, Fig. 3, may be used. I, however, do not here claim such devices, as they will constitute the subject-matter of other applications for patents.

I am aware that fabrics have been made by incorporating fibers, threads, flocks, &c., with a bat, and that skirts have been made by cutting pieces from a fabric previously printed in gore-shaped patterns, and do not claim these features; but it will be seen that the above-described process embodies a new series of operations, whereby the process of felting the bat is also the process of fixing the patterns in the proper relative position to insure an economical division of the fabric without any subsequent ornamenting of the latter.

I claim—

The process of making ornamental felt skirts, consisting in arranging the threads and pattern-pieces on a bat relatively, as set forth, incorporating the whole by felting, thus forming a felt cloth, with patterns arranged for economical division, and then cutting the gore-pieces apart and uniting them, as specified.

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

P. A. DAILEY.

Witnesses:

CHAS. E. FOSTER,
FREDK. BENJAMIN.