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E. K. WARREN & J. H. HOLDEN.

FELTED FEATHER FABRIC.

APPLICATION FILED SEPT. 18, 1902.

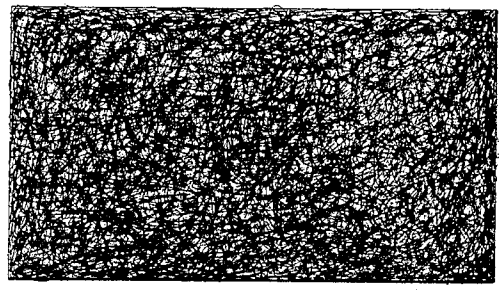


Fig. 1.



Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

EDWARD K. WARREN AND JONAS H. HOLDEN, OF THREEOAKS, MICHIGAN, ASSIGNOR TO THE WARREN FEATHERBONE COMPANY, OF THREEOAKS, MICHIGAN.

FELTED FEATHER FABRIC.

No. 808,791. Specification of Letters Patent. Patented Jan. 2, 1906.

Application filed September 18, 1902. Serial No. 123,911.

To all whom it may concern:

Be it known that we, EDWARD K. WARREN and JONAS H. HOLDEN, citizens of the United States, residing at the village of Threeoaks, in the county of Berrien and State of Michigan, have invented certain new and useful Improvements in Felted Feather Fabrics, of which the following is a specification.

This invention relates to improvements in felt fabrics, and particularly to a felt fabric in which the down or plumage of feathers is utilized.

The object of this invention is to provide an improved fabric consisting of the down or plumage of feathers.

Further objects will definitely appear in the detailed description to follow.

The objects of the invention are accomplished by the devices and means described in the following specification.

The invention is clearly defined, and pointed out in the claim.

A structure embodying the features of this invention is fully illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a plan view of a fabric embodying the features of this invention. Fig. 2 is an edge view of the same.

In the production of this improved felt fabric the down or plumage of feathers is felted and compacted together by any of the well-known felting processes. Owing to the characteristics of the feathers, this process needs to be thoroughly done in order to properly incorporate the short fluffy parts together. When the feathers are once matted or felted together, the same are very securely held in position and the fabric is very durable. The process of felting may be hastened somewhat by the use of a solution of glue or a like adhesive substance. Felt fabric thus formed is exceedingly light, and while it permits quite a free circulation of the air it is at the same time substantially waterproof. The fabric is also very durable and is adapted for the same uses as a woolen felt fabric and possesses many advantages over felt now in use. It makes very desirable lining or interlining for garments and is well adapted for use in bed-blankets or the like on account of its warmth and lightness.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

A felt fabric consisting of the down or plumage of feathers felted together.

In witness whereof we have hereunto set our hands and seals in the presence of two witnesses.

EDWARD K. WARREN. [L. S.]
JONAS H. HOLDEN. [L. S.]

Witnesses:
MORRIS G. MCGAWN,
MARY A. DAVIDSON.