

(No Model.)

J. KENYON.

COTTON AND WOOLEN PAPER MAKERS' DRYING FELT.

No. 355,766.

Patented Jan. 11, 1887.

Fig. 1.

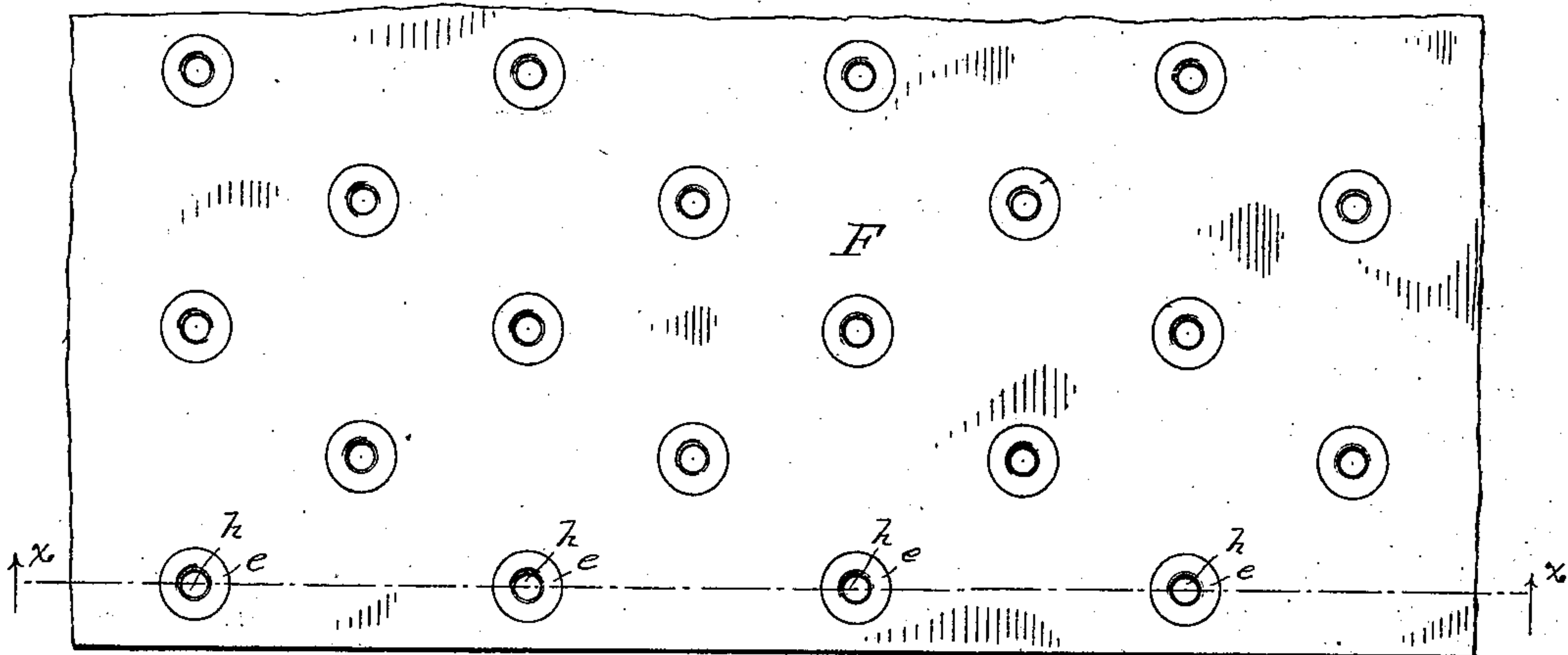


Fig. 1¹

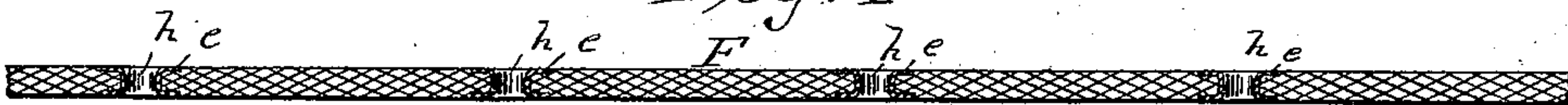


Fig. 2.

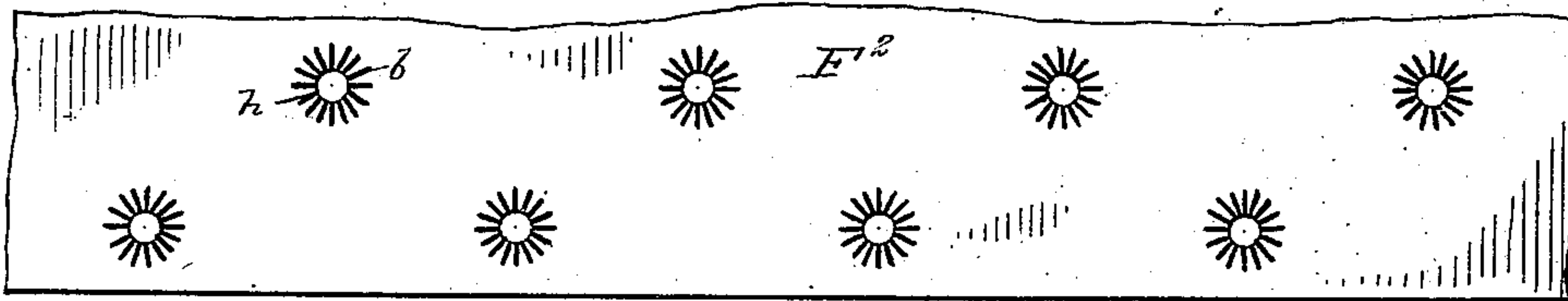
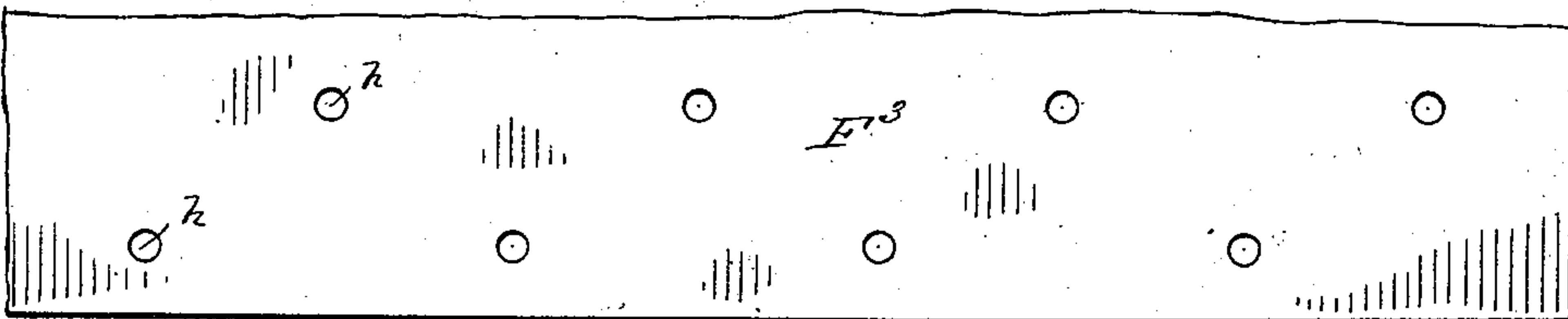


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES KENYON, OF BURY, COUNTY OF LANCASTER, ENGLAND.

COTTON AND WOOLEN PAPER-MAKERS' DRYING-FELT.

SPECIFICATION forming part of Letters Patent No. 355,766, dated January 11, 1887.

Application filed May 6, 1886. Serial No. 201,341. (No model.)

To all whom it may concern.

Be it known that I, JAMES KENYON, a subject of the Queen of Great Britain and Ireland, residing at Bury, in the county of Lancaster, England, have invented a new and useful Improvement in Cotton and Woolen Paper-Makers' Drying-Felts, of which the following is a specification.

The object of this invention is to so improve the cotton or woolen drying-felts used by paper-makers that the steam or vapor which is given off from the paper during the drying process and in passing over the drying-cylinders shall obtain a more ready escape than heretofore. This I effect by perforating the drying-felt with series of holes perpendicular to its top, and I perpetuate such free escape by protecting said holes by metallic eyelets or their equivalent, as hereinafter set forth.

A sheet of drawings accompanies this specification as part thereof.

Figures 1, 2, and 3 of these drawings are face views of fragments of perforated drying-felts, showing the same, respectively, with their holes protected by eyelets, protected by stitching or "binding," and unprotected. Fig. 1^x represents a section on the line *x x*, Fig. 1.

Like letters of reference indicate corresponding parts in the several figures.

I take an ordinary cotton or woolen drying-felt, *F* or *F*² or *F*³, and provide the same with series of ventilating-holes *h*, perpendicular to

its top, sufficient to facilitate the escape of the steam or vapor which emanates from the paper during the drying process and in passing over the drying-cylinders. These holes or perforations I form by punching; but they may be otherwise produced. To preserve the ventilating-channels therethrough, and to prevent fraying from the edges of the punched holes, I provide each hole with a metallic eyelet, *e*, Figs. 1, 1^x, to protect the same; or I stitch or bind the same with yarn or any suitable fiber, as represented at *b*, Fig. 2. The holes may, however be left unprotected, as represented in Fig. 3, without wholly losing the desired effect.

Having thus described my said improvement in paper-makers' drying-felts, I claim as my invention and desire to patent under this specification—

1. A paper-maker's drying-felt perforated with holes perpendicular to its top, substantially as herein specified, to facilitate the escape of steam or vapor from paper thereon.

2. A paper-maker's drying-felt perforated with holes perpendicular to its top and provided with eyelets or the like to protect the perforations, substantially as herein specified.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES KENYON.

Witnesses:

JOHN G. WILSON,
ALFRED OGDEN.