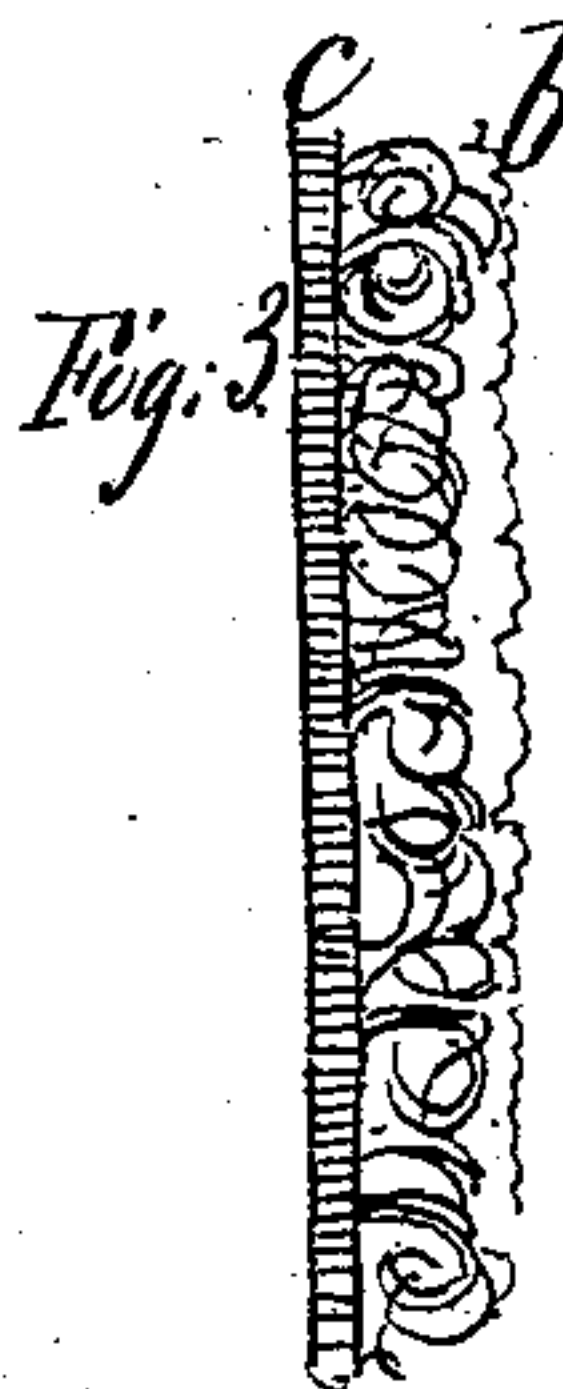
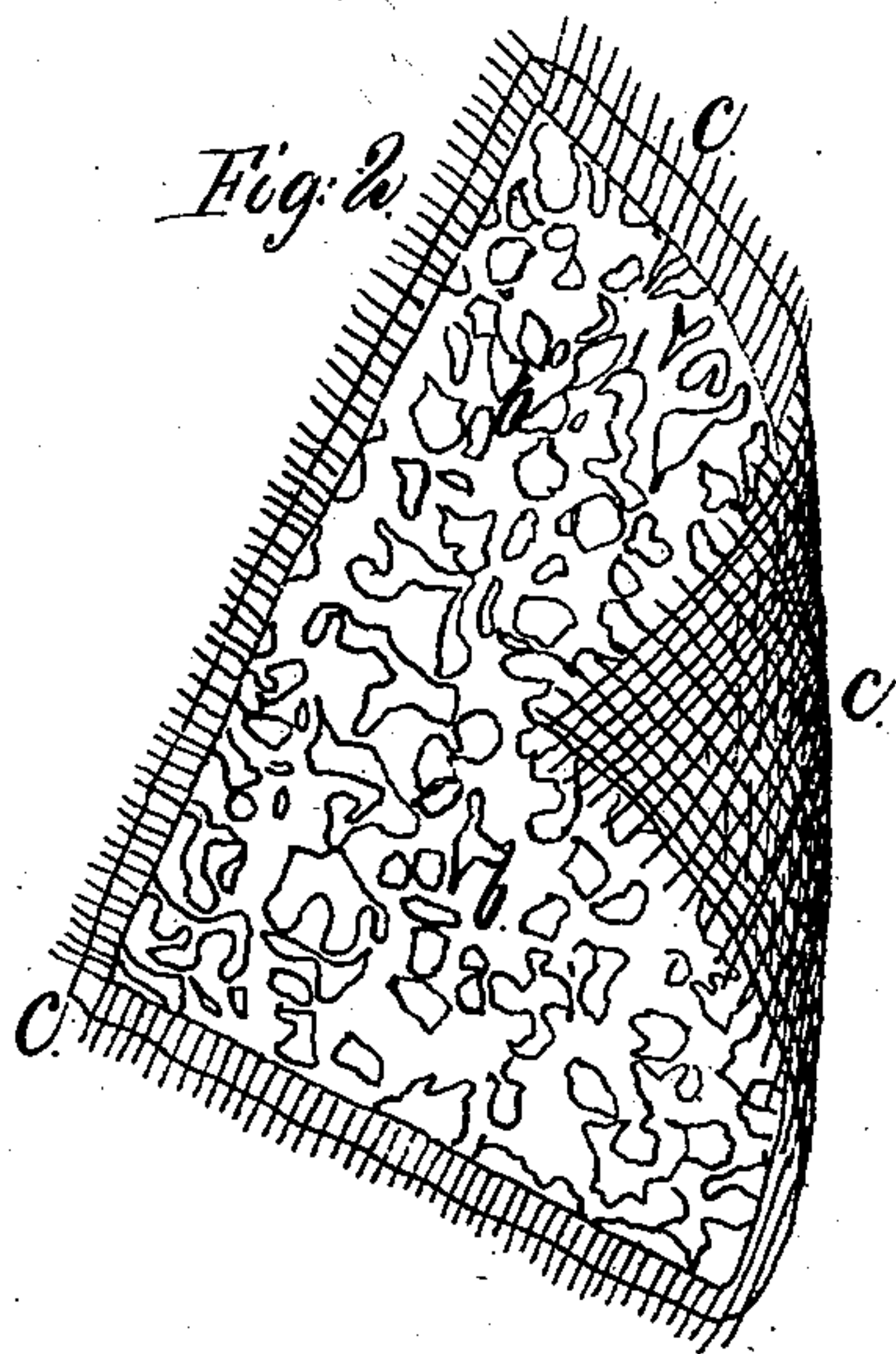
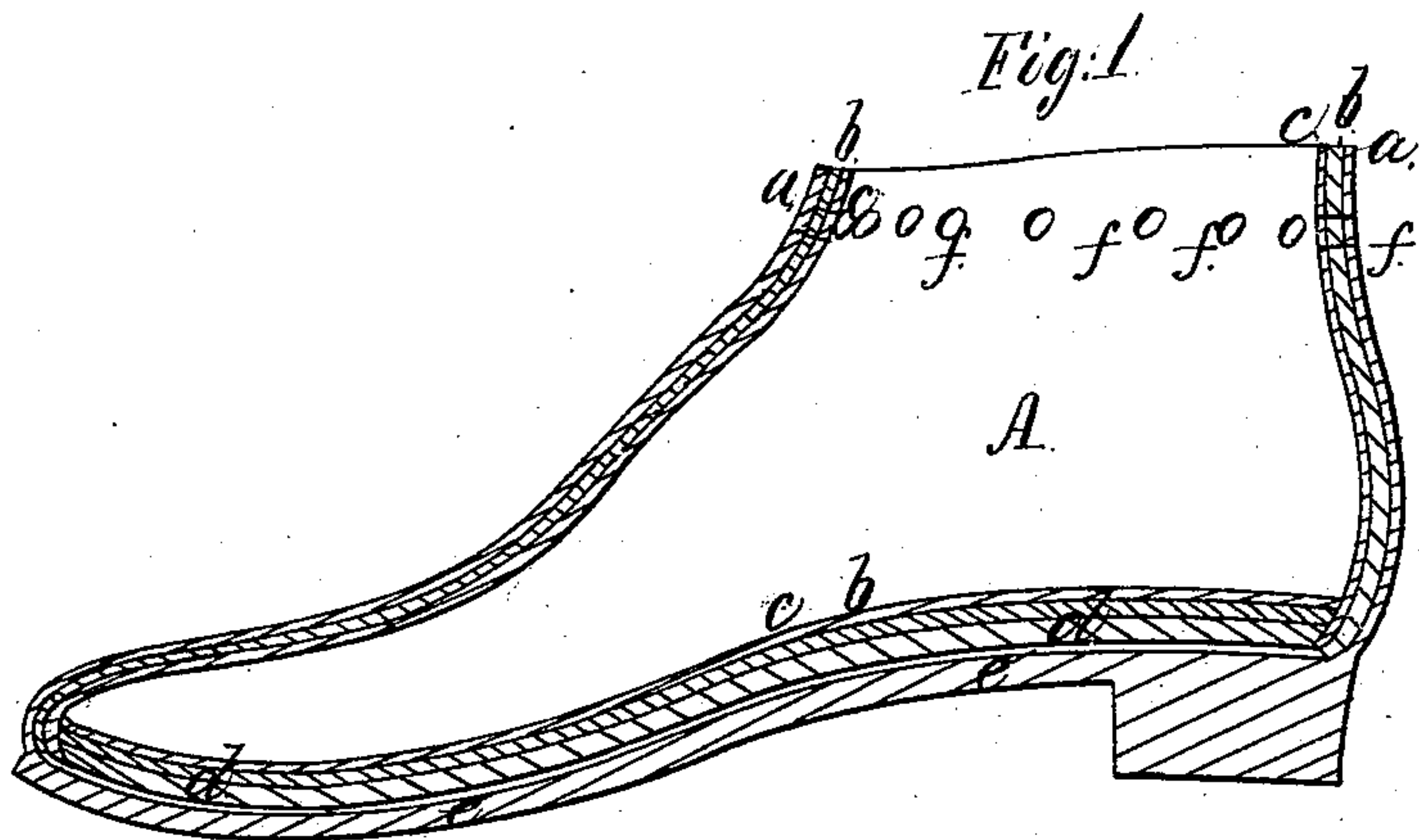


E. Chesterman,
Shoe Uprer,
N^o 77,717, *Patented May 12, 1868.*



Witnesses:
William C. Cleveland
Oliver A. Eaton

Inventor:
Edwin Chesterman
By his attorney
Chas F. Ramsbury.

UNITED STATES PATENT OFFICE.

EDWIN CHESTERMAN, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF
AND EDWIN A. EATON.

IMPROVEMENT IN BOOTS AND SHOES.

Specification forming part of Letters Patent No. 77,717, dated May 12, 1868.

To all whom it may concern:

Be it known that I, EDWIN CHESTERMAN, of the city of Boston, in the State of Massachusetts, have invented a new and useful Improvement in Boots and Shoes; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a longitudinal section, showing the arrangement of the materials composing the shoe or boot. Fig. 2 is a view of the lining fabric, showing its smooth and its shaggy side; and Fig. 3 is a section of the same.

Similar letters indicate like parts in all the figures.

This invention is a modification or improvement of the method of constructing boots and shoes described in the specification of Letters Patent No. 52,138, granted to me January 23, 1866. In that specification I described a boot or shoe in which a lining of hair, wool, felt, or some other suitable material was interposed between the upper or outside and the usual lining, the double object being to secure warmth and to insure such free ventilation of the feet as, even in a shoe with an upper of vulcanized rubber, would effectually carry off perspiration and keep the feet dry as well as warm.

The principle of the present invention is essentially the same as that of the patented shoe just referred to; but instead of interposing a separate stratum of material between the upper and the lining, I make use of a single lining fabric having one rough, shaggy, or woolly side, and place the shaggy side next to the upper and the smooth side next to the inside of the shoe, thus securing to a certain degree the objects attained by my previous invention by a less difficult and expensive method of construction.

In the accompanying drawings, A marks the interior of a shoe or boot of any desired form. The upper *a* may be of leather, or preferably of a thin sheet of rubber coated on a cotton or other fabric and vulcanized.

b c marks the lining fabric, which may be a cotton, woolen, or similar material of one or more plies, having a loose, shaggy, or woolly side. A material of this character is shown in Figs. 2 and 3, the smooth side *c* being colored red and the shaggy side *b* purple. This fabric is so placed in the shoe that the shaggy side

b is next to the upper and the smooth side *c* next to the foot. (Clearly shown in Fig. 1.)

A cork sole, *d*, may, when preferred, be placed between the lining and the outer sole, *e*, of the shoe.

It results from this construction that a material of loose open texture lies next to every part of the upper or outside of the boot or shoe. The perspiration from the foot will naturally be attracted to this part of the lining, and the motions of the foot, acting upon the elastic texture of this fabric, will tend constantly to keep up a ventilating action upon all portions of its surface, forcing air and vaporized moisture out at the top of the shoe, perforated or left open for their escape, and thus keeping the feet dry.

The non-conducting character of the lining will tend to keep the feet warm.

I do not claim that this mode of construction is equally effectual with my patented method hereinbefore referred to in securing the objects of that invention; but as making a lighter and less clumsy shoe, and as a cheaper method of attaining an approximation to the same results it may properly be regarded as an improvement.

The vent-holes *f*, opening into the ventilating-space between the lining and upper for the admission of air and the escape of air and vapor, are an important addition to my previous invention. They are shown here near the top of the shoe, but may occupy any suitable position that may be preferred.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

A boot or shoe, whether made of leather or other material, having a lining fabric, one of whose sides consists of a loose, shaggy, or woolly material when such shaggy side is placed toward the upper or outside of the boot or shoe for the purpose of securing warmth and ventilation, as specified.

The above specification of my said invention signed and witnessed at Boston this 15th day of January, A. D. 1868.

EDWIN CHESTERMAN.

Witnesses:

WILLIAM C. CLEVELAND,
CHAS. F. STANSBURY.