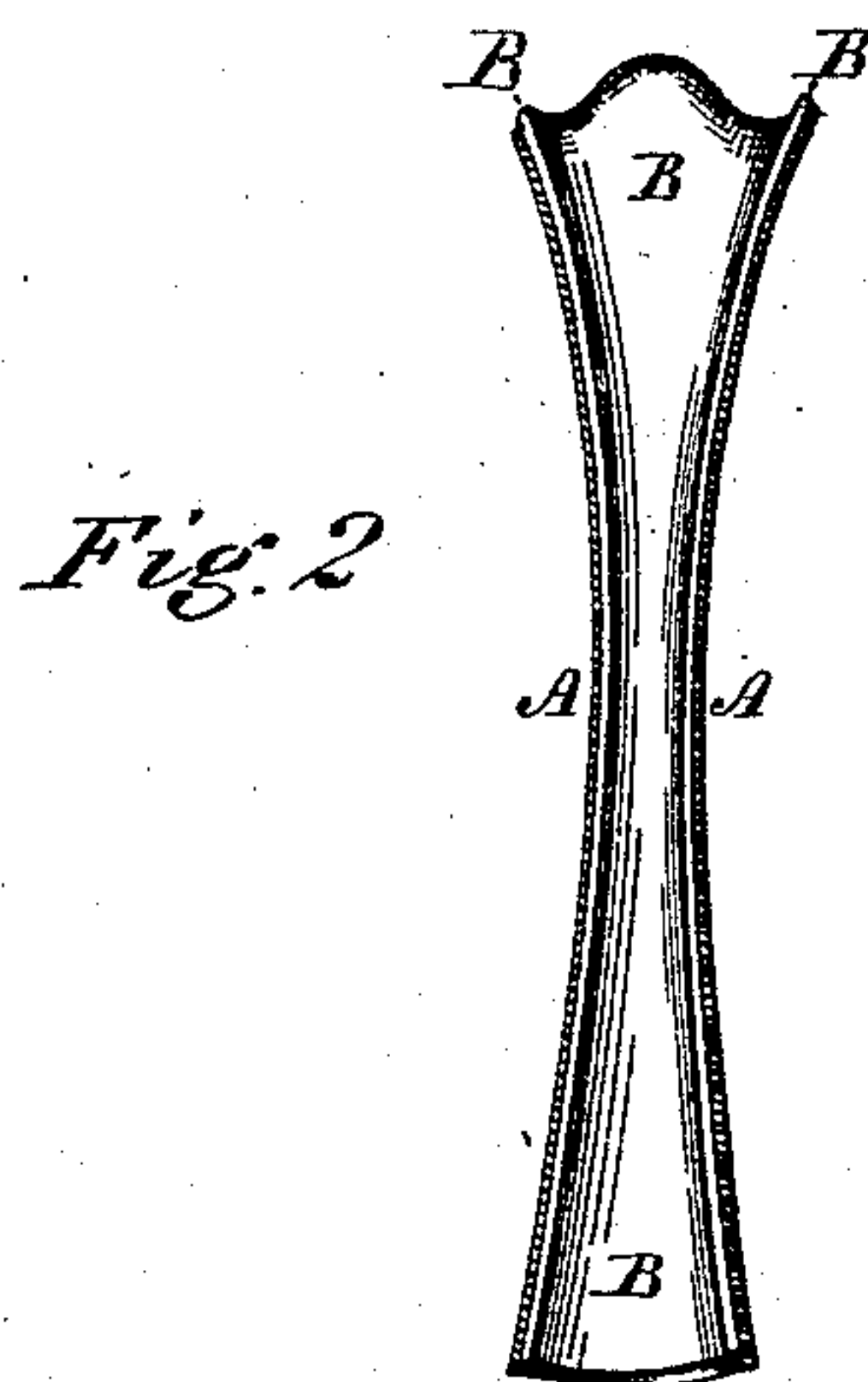
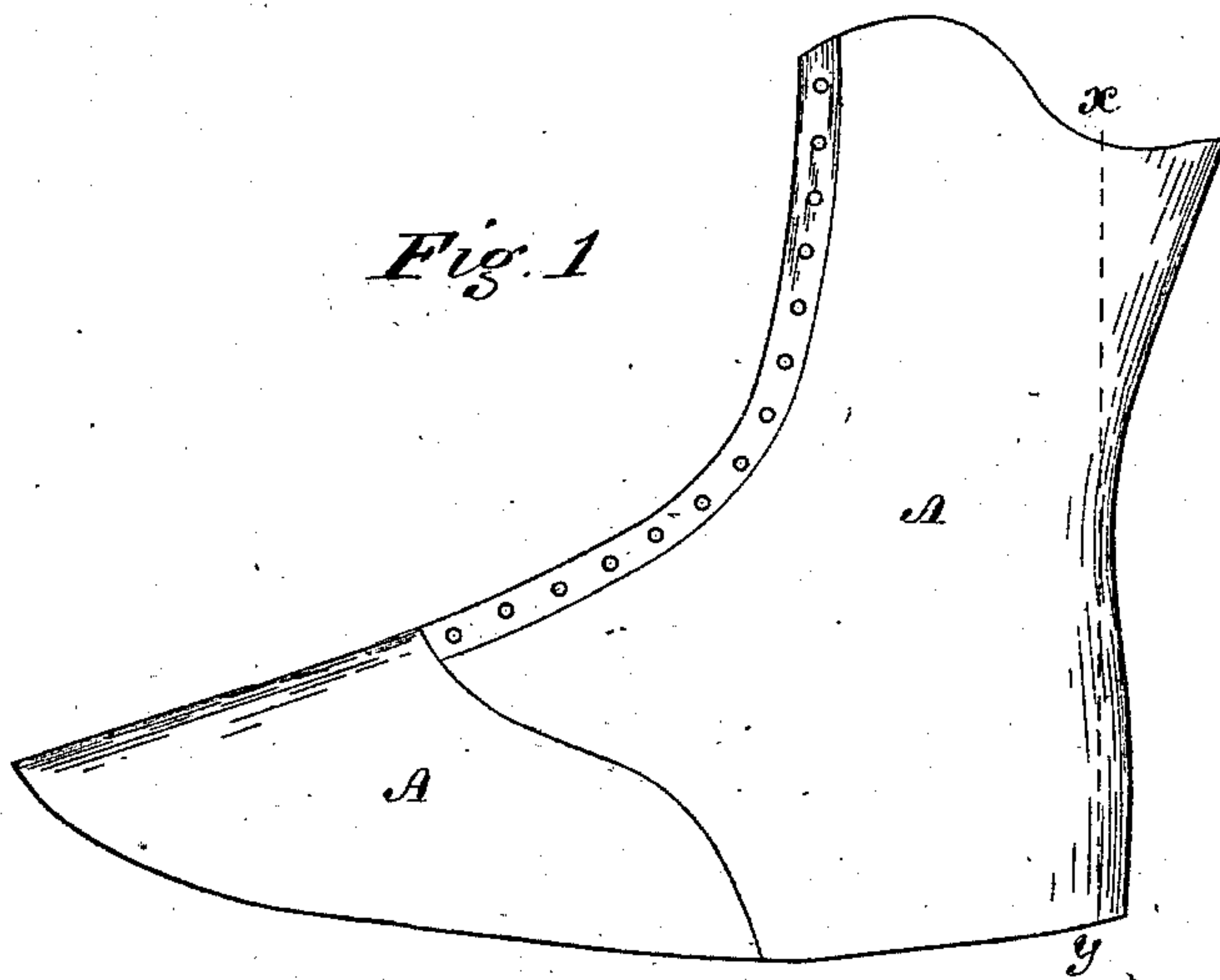


(Model.)

A. M. DANIELS.  
Lining for Boots and Shoes.

No. 232,694.

Patented Sept. 28, 1880.



Witnesses.

Mendell R. Curtis  
Wilmot Horton

Inventor

Alarow M. Daniels  
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Attorney.

# UNITED STATES PATENT OFFICE.

AARON M. DANIELS, OF HARTFORD, CONNECTICUT, ASSIGNOR TO SAM ALLEN, OF SAME PLACE.

## LINING FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 232,694, dated September 28, 1880.

Application filed March 1, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, AARON M. DANIELS, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Linings for Shoes; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

My improvement relates to the manufacture of shoes; and it has for its object the providing of a better and more perfectly-fitting lining than has heretofore been in use, which will firmly adhere to the leather as long as the shoe lasts, and render the shoe perfectly water-proof.

My improved water-proof lining is intended to be made up with the shoe in the usual manner, except that it is not to be pasted upon the leather, as is now ordinarily done.

In the accompanying drawings, Figure 1 is a side view of the upper-leather of a shoe before it is attached to the sole. Fig. 2 is a section of Fig. 1 upon the line *x y*, looking to the rear, and showing the two thicknesses of leather and lining upon the sides.

A represents the ordinary upper-leather. B represents the lining upon the inside of the shoe.

My improved lining consists of a thin layer of felt, upon which is spread a coating of water-proof cement composed of pulverized rosin mixed with a sufficient quantity of adhesive substance to admit of its being evenly spread upon

the lining and then allowed to become dry and hard. The adhesive material preferably used is flour paste; mixed in equal proportions with the powdered rosin, but the exact proportions are not material. The principal ingredient is the rosin, which forms the base of the water-proof attaching cement, the paste or other adhesive substance being only the vehicle for distributing and retaining the rosin upon the lining until it is placed in the shoe.

With my improved lining the shoe is made up with the lining loose and not pasted to the leather.

As soon as the shoe is worn the warmth of the foot causes the cement to adhere firmly to the leather, to which it always fits closely and cannot become wrinkled or loose.

The rosin forms a water-proof layer between the leather and lining exactly where it is needed, allowing both the leather and lining to dry at once, if they become wet or moist.

What I claim as my invention is—

1. A boot or shoe provided with a loose lining coated upon the inner surface with cement or other suitable substance adapted to adhere to the leather when brought in contact with the foot, substantially as described.

2. A boot or shoe provided with a lining of thin felt made water-proof by a mixture of rosin and an adhesive medium applied upon its inner surface, all substantially as set forth, for the purpose stated.

AARON M. DANIELS.

Witnesses:

THEO. G. ELLIS,  
WILMOT HORTON.