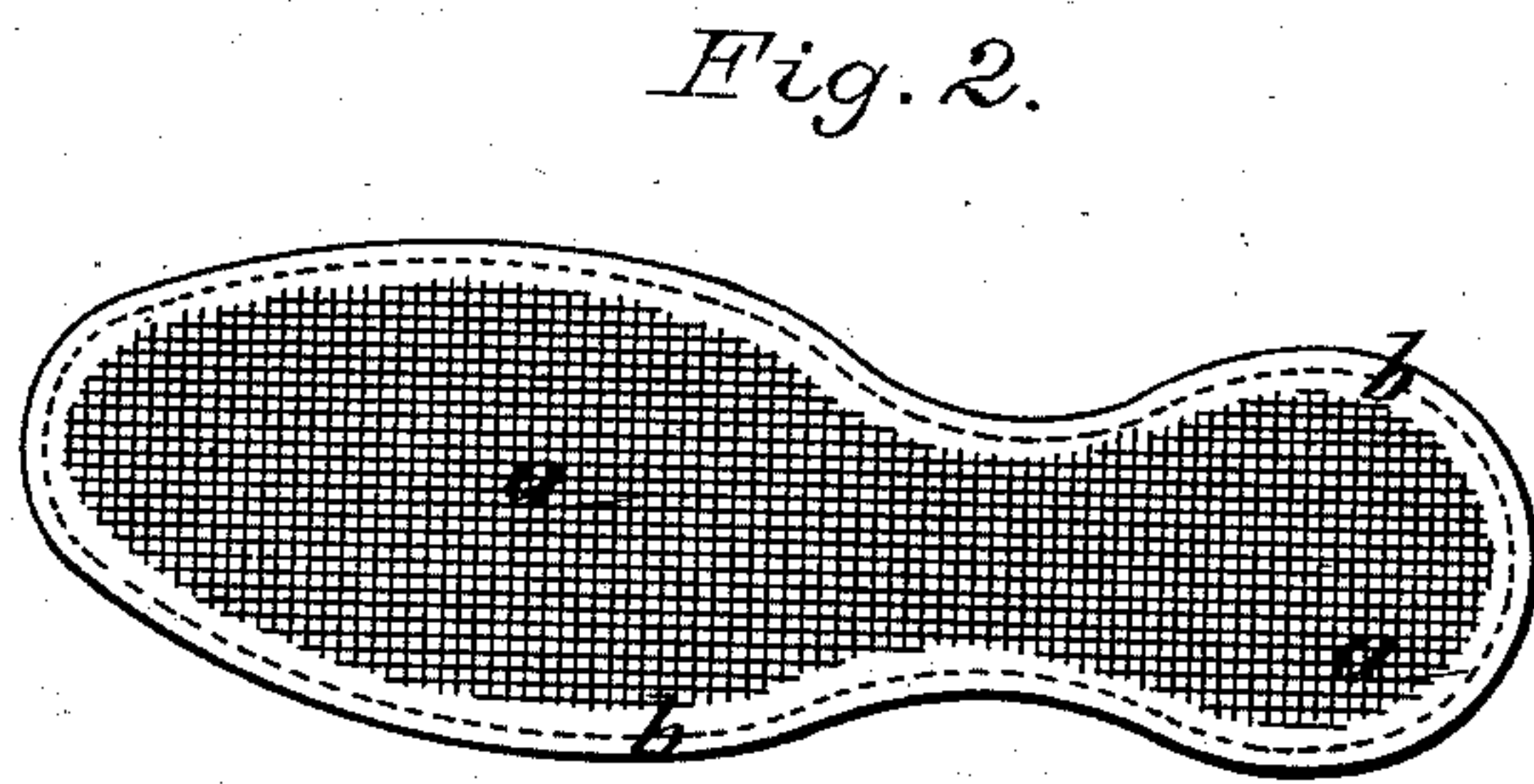
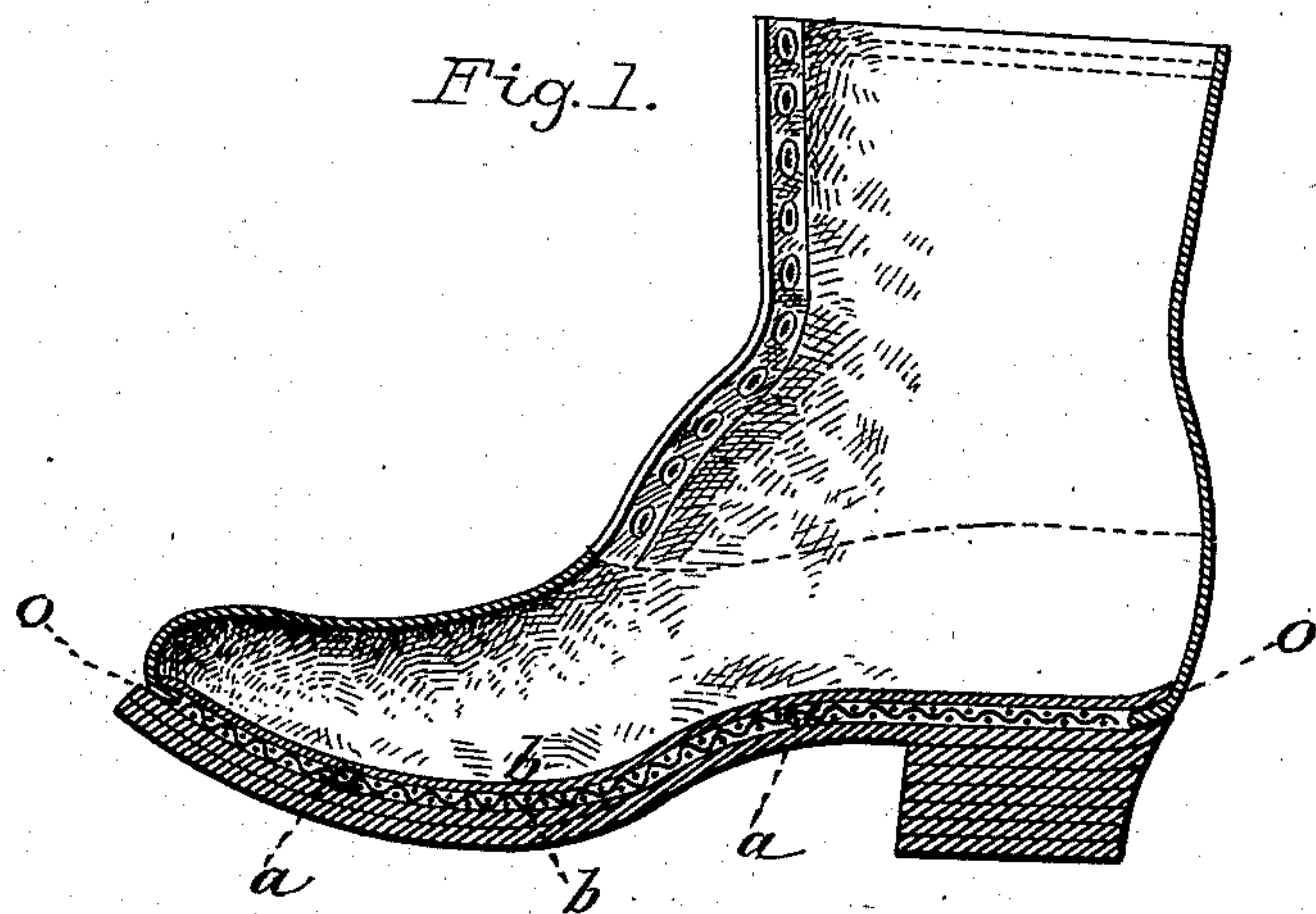


(No Model.)

J. JENKINS.
BOOT AND SHOE.

No. 283,249.

Patented Aug. 14, 1883.



Attest:
Howell Bartlett.
Edmund Brodhag

Jabez Jenkins,
Inventor;
per *Johnson & Johnson*
his Attys.

UNITED STATES PATENT OFFICE.

JABEZ JENKINS, OF PHILADELPHIA, PENNSYLVANIA.

BOOT AND SHOE.

SPECIFICATION forming part of Letters Patent No. 283,249, dated August 14, 1883.

Application filed April 18, 1883. (No model.)

To all whom it may concern:

Be it known that I, JABEZ JENKINS, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia, State of Pennsylvania, have invented new and useful Improvements in Boots and Shoes, of which the following is a specification.

My invention relates to the manufacture of boots and shoes in which an air-chamber is formed between the foot and the sole.

My improvements consist in making the shoe with a layer or layers of wire-gauze between two layers of the sole, so as to form an air-space under the inner sole, to keep the feet dry by preventing the outsole from touching the inner one, and at the same time afford a solid and uniform flexible bearing for the insole. The gauze sole is flexible at every point, is easily applied, is held in place by the leather soles, separates them alike at every point, and forms a foundation for both leather soles, bending with them only with the bend of the foot, but having no yielding function under the tread of the foot. This gauze sole is cut or stamped out of sheet-gauze the shape of the sole, and of a size sufficiently less to be placed within the lines of stitching in making the shoe. It is of the same thickness at every point, is light, and gives the same air-space at every point and the same support to both leather soles at every point of contact, without giving the least undue or unequal stiffness to the sole of the shoe, increasing the durability of the sole with a very small addition in the cost of making the shoe.

In the accompanying drawings, Figure 1 represents a vertical longitudinal section of a shoe made with the interposed gauze sole; and Fig. 2, a horizontal section on the line *o o*, Fig. 1. In making the shoe I insert one or more layers of wire-gauze, *a*, between two of the layers *b b* of the sole, the gauze sole being of a form and size to occupy the space between the lines of stitching or pegging, as seen in Fig.

2, and may either extend from toe to heel or from the toe to the shank, and by this gauze sole produce and maintain an air-space between the soles of a boot or shoe equal in depth to the thickness of the gauze sole and equal in width to its entire surface, which I find in practice to effectually prevent the communication of moisture to the insole and to keep the foot warm by conserving its natural heat. It is immaterial between which two of the layers of the sole the wire-gauze sole is placed, and it is obvious that it may be so placed without trouble in making the shoe. If two or more wire-gauze soles are used, the strands of one should be diagonal to those of the other, and when two are used I prefer that the gauze should be of finer mesh than when a single wire-gauze sole is used. Any wire-gauze of suitable mesh, tinned, galvanized, painted, or otherwise protected from rust, will answer, and I have used two layers of what is known as "No. 20" tinned wire-gauze with good results, as also a single layer.

Boots and shoes manufactured in this way with one or more wire-gauze soles make an improved article of manufacture which conserves the natural warmth of the feet.

I claim—

The described improvement in the manufacture of boots and shoes, consisting of the wire-gauze sole placed between the leather soles and held by them within the lines of stitching, whereby to form an intervening air-space in the sole, to give a uniform solid bearing to the insole and to the outsole, and allow of the uniform flexure of the sole, as shown and described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JABEZ JENKINS.

Witnesses:

A. G. STOUT,
MATT. CLIFTON.