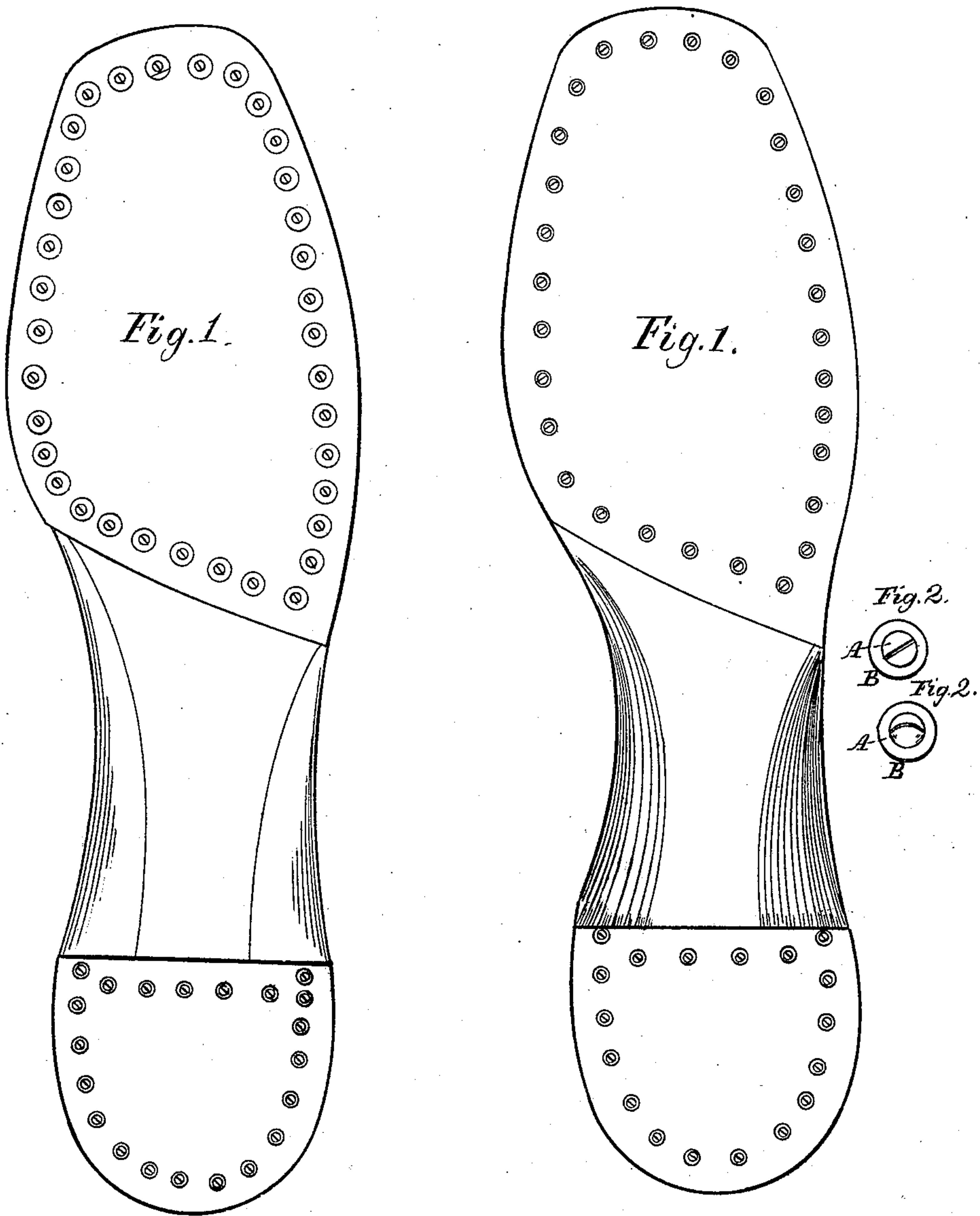


F. H. Hawks,

Shoe Sole.

No. 81,366.

Patented Aug. 25. 1868.



Francis H. Hawks,

Inventor
Edw. W. Shapard
Attest

United States Patent Office.

FRANCIS H. HAWKS, OF ST. LOUIS, MISSOURI.

Letters Patent No. 81,366, dated August 25, 1868.

IMPROVEMENT IN ATTACHING SOLES TO BOOTS AND SHOES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, FRANCIS H. HAWKS, of the city and county of St. Louis, State of Missouri, have invented a new and improved Mode of Attaching Extra or Double Soles to Boots and Shoes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in attaching an extra or water-proof sole to boots and shoes, in such a manner that it can be removed and replaced at pleasure.

To enable others skilled in the art to make and use my invention, I will proceed to describe the manner in which the same is constructed, reference being had to the accompanying drawings.

Extra half soles and heel-taps, manufactured of India rubber, or any other water-proof or durable material, are secured to the bottom of any ordinarily-constructed boot or shoe in the following manner:

The half soles and heel-taps to be secured are punctured near the rims with holes, at any desired intervals, for the admission of screws, by which the extra or water-proof soles are attached to the ordinary boot or shoe. These screws are passed through the perforated centre of a thin circular plate or washer of copper or other metal, and this plate or washer, when the screw is inserted therein, rests against the base of the head of the screw, and prevents the rubber or other water-proof material from closing over and embedding the screw-head. Instead of this washer, eyelets of metal, constructed with a broad outer rim, may be used. These eyelets may be inserted in the half soles or heel-taps to be attached, and the screws then passed through them into the soles of the boots or shoes. When the screws are fully inserted, their heads will rest upon the broad rim of the eyelet.

By removing these screws, the half soles and heel-taps secured thereby may be detached, and new ones substituted.

Figure 1, in the accompanying drawings, is a view of the exterior surface of the half sole and heel-tap attached to an ordinary boot or shoe by my method.

Figure 2 represents the head of screw, together with the washer or eyelet, letters A being the head of the screw, and letters B the washer or rim of eyelet, on which the head of said screw rests.

What I claim as my invention, and desire to secure by Letters Patent, is—

The new application and use of screws, together with washers or eyelets, as herein described, for the purpose of attaching water proof half soles and heel-taps to boots and shoes.

FRANCIS H. HAWKS.

Witnesses:

EDM. W. SHANDS,

N. WEBSTER JOSSELYN.