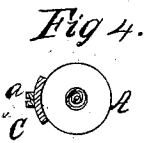
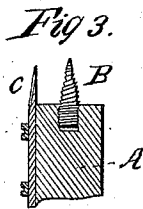
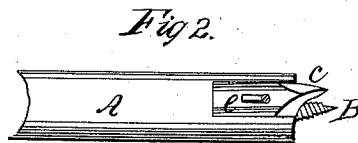
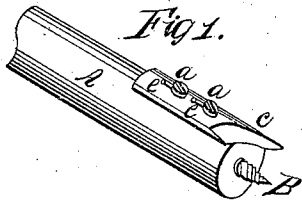


F. T. Andrews,

Shoemakers' Tool,

N^o 79,181.

Patented June 23, 1868.



Witnesses.

J. W. Beadle.
E. R. Beadle

Inventor.
Fred. T. Andrews
by Attorneys
Brown, Cronin & Co

United States Patent Office.

FREDERICK T. ANDREW, OF CHARLOTTESVILLE, VIRGINIA.

Letters Patent No. 79,181, dated June 23, 1868.

IMPROVED INSTRUMENT FOR TESTING SHOE-SOLES.

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, FREDERICK T. ANDREW, of Charlottesville, in Albemarle county, and State of Virginia, have invented a new and useful "Instrument for Testing Shoe-Soles;" and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing through letters of reference marked thereon, forming part of this specification, and in which—

Figure 1 represents a perspective view of an instrument made according to one modification of my invention.

Figure 2, a side view of another modification.

Figure 3 is a longitudinal section of fig. 1.

Figure 4 is an end view of the same.

Figure 5 is an end view of fig. 2.

The same letters appearing on the several figures indicate corresponding parts.

In the wholesale manufacture of boots and shoes, it is well known that in the cheaper class of goods, paper is used to a considerable extent as a filling, to give the appearance of substance, and these paper-filled goods are frequently imposed upon the public for solid leather. To provide an instrument for testing the material of which boots and shoes are manufactured, and thus prevent this imposition, is the object of my invention; and it consists in an instrument by which a small hole may be cut in the inner sole, and the core removed, to expose the filling, and in such a manner that the core may be returned to its place with a little paste, and smoothed down with a hammer or other suitable tool, so as to be scarcely perceptible, and without injury to the goods.

To enable others to make and use my invention, I will proceed to describe its construction and operation by referring to the drawings, in which—

A represents the stock, which is made of metal, preferably cylindrical for a portion of its length, and may be extended with a square, tapering shank, to be inserted in a wooden or other suitable handle. The round portion is made flat on its end, and has a gimlet-pointed screw, B, inserted in its centre, and at its periphery is a cutter, C, which may be attached thereto by screws *a*, as represented in figs. 1 and 4, or it may be inserted in a dove-tailed cavity, as shown in figs. 2 and 5. In either case, the holding-screw should pass through a slot, *e*, in the cutter, to allow of its being adjusted, to compensate for wear by sharpening. The screw B may either be made solid with the stock, or it may be in a separate piece, screwed into it, as represented in fig. 3. The point of the cutter should be adjusted on the stock so that the point of the screw will enter the leather about one turn before the cutter begins to operate. This cutter may be made as represented in the drawing, or it may be cylindrical, like a wad-punch, or any portion of such form, but I prefer the side cutter, on account of the greater facility for removing the core.

In using this instrument, it is inserted in the boot or shoe, and screwed into the sole at, usually, about the centre of the shank, until the inner sole is cut through, when the core, being tight upon the screw B, will revolve with the tool, and prevent its boring deeper. The tool may then be withdrawn, bringing with it the core, which will expose the paper filling to view, should any be there. The core may then be unscrewed from the tool, and hammered back in its place, with a little paste, and the cut will be scarcely perceptible, and the boot or shoe uninjured.

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

The instrument for testing boots and shoes, constructed substantially as herein shown and described, as a new article of manufacture.

In testimony whereof, I hereunto sign my name before two subscribing witnesses, this 13th day of May, 1868.

FRED. T. ANDREW.

Witnesses:

WM. A. PRATT,

G. JULIAN PRATT.