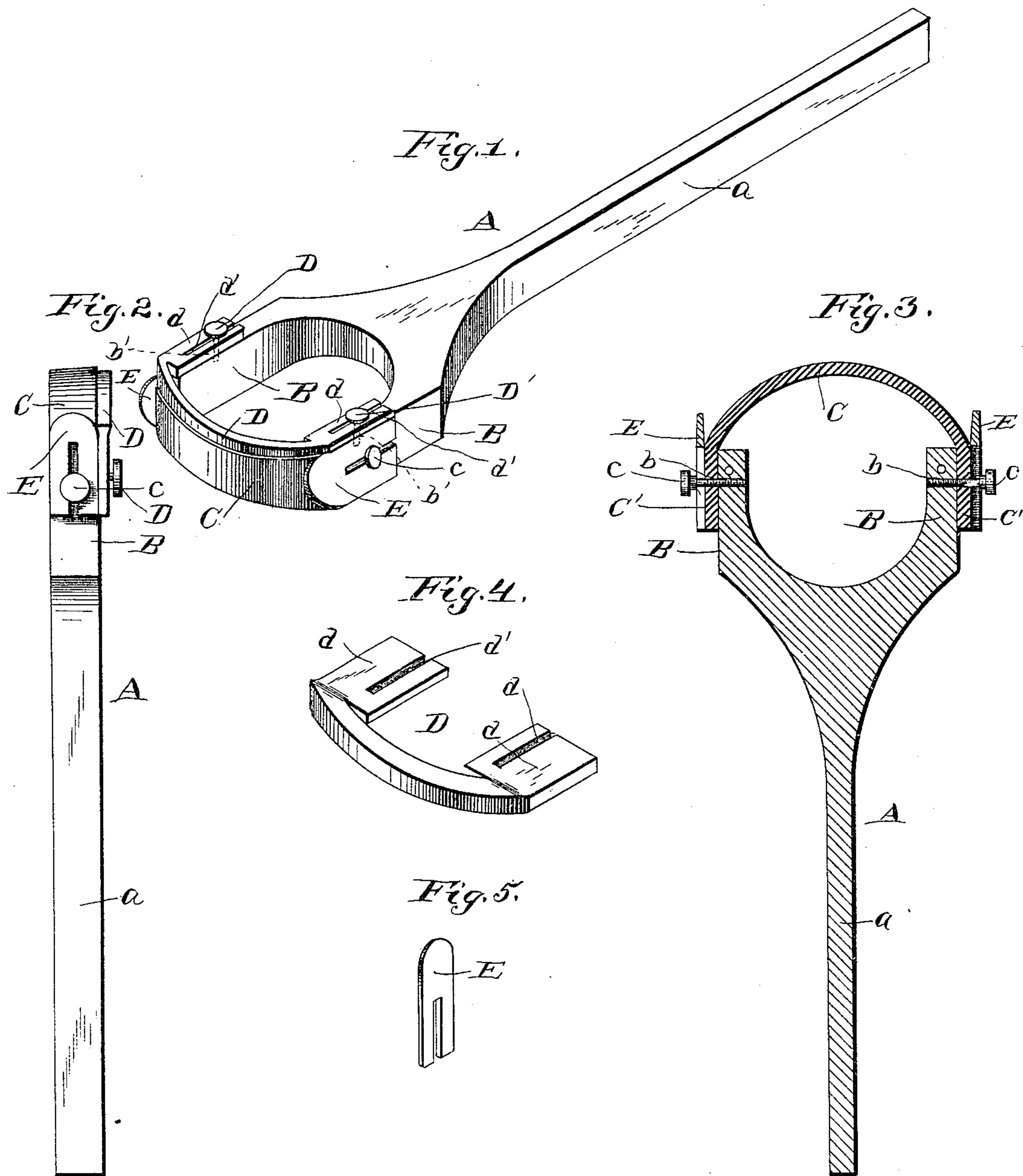


(No Model.)

E. B. & J. T. DRUMMOND.
SOLE AND HEEL SHAVING IMPLEMENT.

No. 351,429.

Patented Oct. 26, 1886.



Witnesses

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UNITED STATES PATENT OFFICE.

ERNEST B. DRUMMOND AND JOHN T. DRUMMOND, OF MASSIE'S MILLS, VA.

SOLE AND HEEL SHAVING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 351,429, dated October 26, 1886.

Application filed July 29, 1886. Serial No. 209,470. (No model.)

To all whom it may concern:

Be it known that we, ERNEST B. DRUMMOND and JOHN T. DRUMMOND, citizens of the United States, residing at Massie's Mills, in the county of Nelson and State of Virginia, have invented a new and useful Improvement in Sole and Heel Shaving Implements, of which the following is a specification.

Our invention relates to improvements in sole and heel shaving implements; and it consists of the peculiar combination and novel construction and arrangement of the various parts for service, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

The object of our invention is to provide an improved implement for shoe and boot makers' use which can be easily and conveniently used for trimming both the soles and heels of boots and shoes without replacing or adjusting the cutting implement or the guide, and which can also be used in either the right or left hand to trim corresponding sides of the sole and heel of the work to be operated upon.

A further object of our invention is to provide an improved implement which shall be very simple and durable in construction and cheap and inexpensive of manufacture, to provide means for adjusting the guide so that the cutter can trim the leather to a greater or less depth, and to provide auxiliary guides which shall effectually prevent the cutter from injuring the upper of the shoe or boot.

In the accompanying drawings, which illustrate a sole and heel shaving implement embodying our improvements, Figure 1 is a perspective view. Fig. 2 is an end elevation. Fig. 3 is a vertical sectional view on the line *x x* of Fig. 2. Fig. 4 is a detail perspective view of the main guide for the cutter. Fig. 5 is a like view of the auxiliary guide.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A designates the shank of our improved hand implement for trimming or shaving soles and heels of shoes and boots, which is provided at one end with a handle, *a*, of any approved pattern, so that it can be easily and readily grasped by the hand of the operator. One end of this shank A is bifurcated to provide the parallel arms B, which

are arranged some distance apart from each other, and these arms B are provided, near their outer ends, with interiorly-threaded apertures or passages *b* and *b'*, each of the arms having these two apertures, for a purpose hereinafter explained.

C designates the cutter or blade, which is made of convex shape to correspond with the convexity of the heel or sole which is to be trimmed. A set of these cutters may be provided with each implement, and each cutter of the set may be of different curvature and size to accommodate boots or shoes of different sizes and shapes, as will be very readily understood. I have only shown one of the cutters C herein, as I have not deemed it of sufficient importance to illustrate the several forms that may be employed, the cutters being interchangeable at will on the arms of the shank. Each of these cutters C, however, is provided at its ends with contact-flanges *C'*, which are arranged at an angle to the body of the cutter and are adapted to bear against the outer sides of the free ends of the arms B of the implement, and through suitable openings in these flanges *C'* of the cutter pass binding-screws *c*, which enter the apertures *b* of the arms B and thus serve to firmly secure the cutter to the arms B, while at the same time the screws permit the cutter to be easily detached from the implement and its place supplied by another cutter of different size or convexity, as will be readily understood.

D designates the main guide for the cutter, which corresponds to the shape and size of the cutter to which it is adapted for service. One of these guides is provided for each of the cutters to which it corresponds in size and shape, and when one of the blades is applied to the arms B of the implement the guide D corresponding thereto is also connected to the implement in proper position to prevent the cutter from entering the leather too deep. The guide is also provided with contact-flanges *d*, which are arranged at an angle to the guide to correspond with similar flanges on the cutter, and these flanges are slotted longitudinally, as at *d'*, so as to permit of the free passage of the binding-screws *D'* therethrough, the said binding-screws entering the threaded openings *b'* of the arms B of

the implement. The guide is so arranged with relation to the cutter that its flat side is presented to the edge of the cutter, and this guide is arranged to bear on the sole or heel when the implement is in use to prevent the cutter from cutting too deep, the guide being adjustably secured to the shank A by the binding-screws working in the slots *d'*, so that the depth of the cut performed by the cutter can be regulated to suit the case.

E designates the auxiliary guides, one of which is arranged at each side of the cutter to prevent the latter from entering or injuring the upper of the boot or shoe that is being operated upon. These auxiliary guides bear against the angular flanges of the cutter, to which they are adjustably secured by means of the same binding-screws, *c*, that secure the cutter to the implement, which screws *c* pass through longitudinal slots in the said auxiliary guides, as shown. The free ends of these auxiliary guides are arranged about in line with the convex surface of the cutter, and by means of the longitudinal slots in the guides E and the binding-screws the guides can be adjusted to assume the same relative positions to the cutter irrespective of the convexity of the latter.

The operation of our improved implement will be readily understood from the foregoing description, taken in connection with the drawings.

It will be seen that the blade and the main guide can be easily and readily detached from the shank to permit other like devices, but of different sizes or shapes, to be connected to the shank.

Our improvements are simple and strong in construction, and cheap and inexpensive of manufacture. The implement can be used in either the right or left hand with equal facility to trim both sides of the sole and the heel of the shoe without requiring blades of different forms to be connected to the shank, to which feature we lay special stress, as it is very important in the practical use of an implement of this class.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A heel-shaving implement consisting of a shank having the bifurcated arms provided with the interiorly-threaded openings *b b'*, arranged at right angles to each other, the flanged slotted cutter fitted against the outer extremities of the arms to cause its slots to register with the openings *b* thereof, the main guide having its edge presented to the sharpened edge of the cutter, and the slotted flanges *d* bearing against the sides of the arms to cause the slots of the flanges to align with the openings *b'*, and the binding-screws *c D'*, passing through the slotted flanges of the cutter and guide and entering the threaded openings to adjustably and detachably connect the cutter and guide to the arms of the shank, substantially as described.

2. The combination of a shank, a cutter, a main guide therefor, and the auxiliary guides connected to the shank and arranged at the ends of the cutter, substantially as described.

3. The combination of a shank, a detachable cutter, the removable guide connected to the shank, and the adjustable auxiliary guides arranged at the ends of the cutter, substantially as described.

4. The combination of a shank having the apertured arms B, the flanged cutter, the slotted main guide therefor, the slotted auxiliary guides arranged at the ends of the cutter, and the binding-screws, substantially as described, for the purpose set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

ERNEST B. DRUMMOND.
JOHN T. DRUMMOND.

Witnesses:

JOHN I. HILL,
E. L. KIDD.