

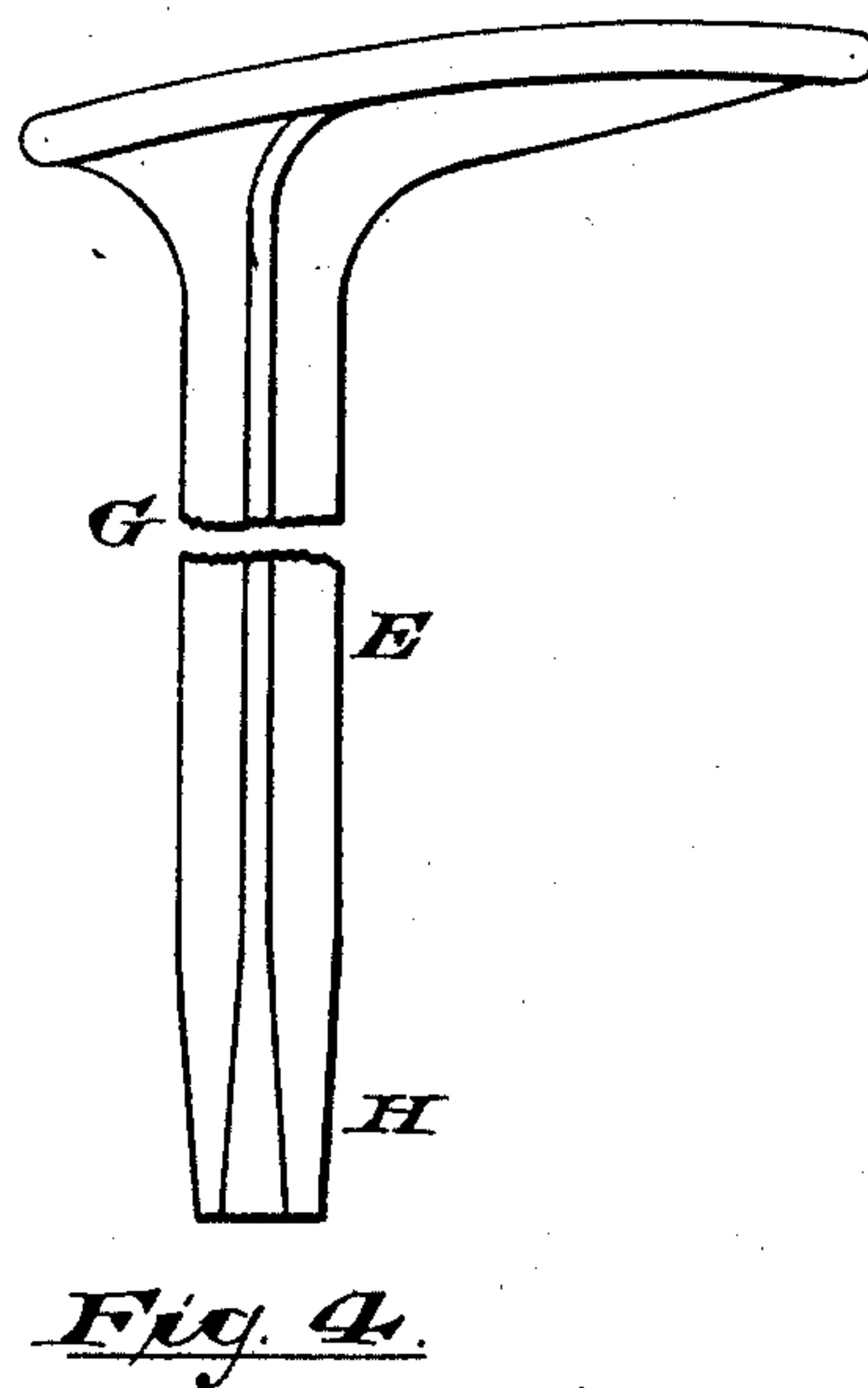
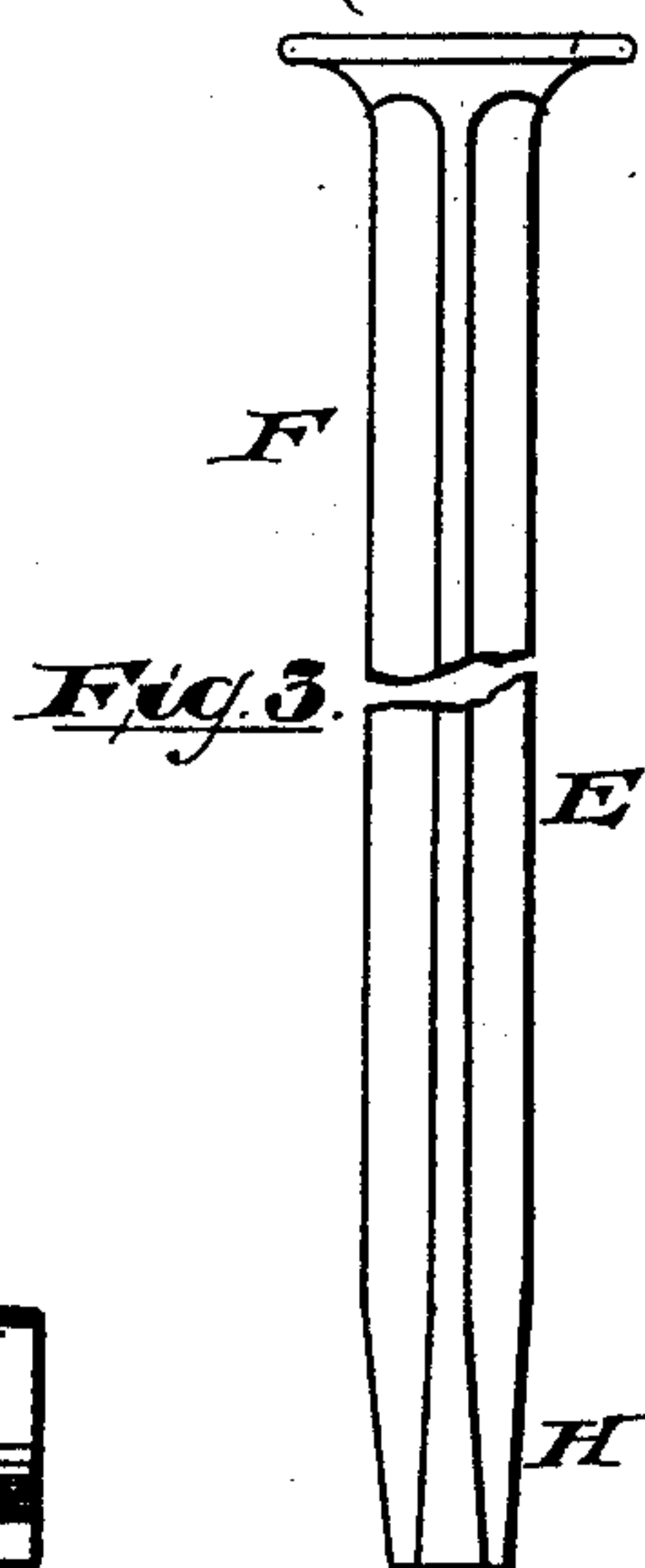
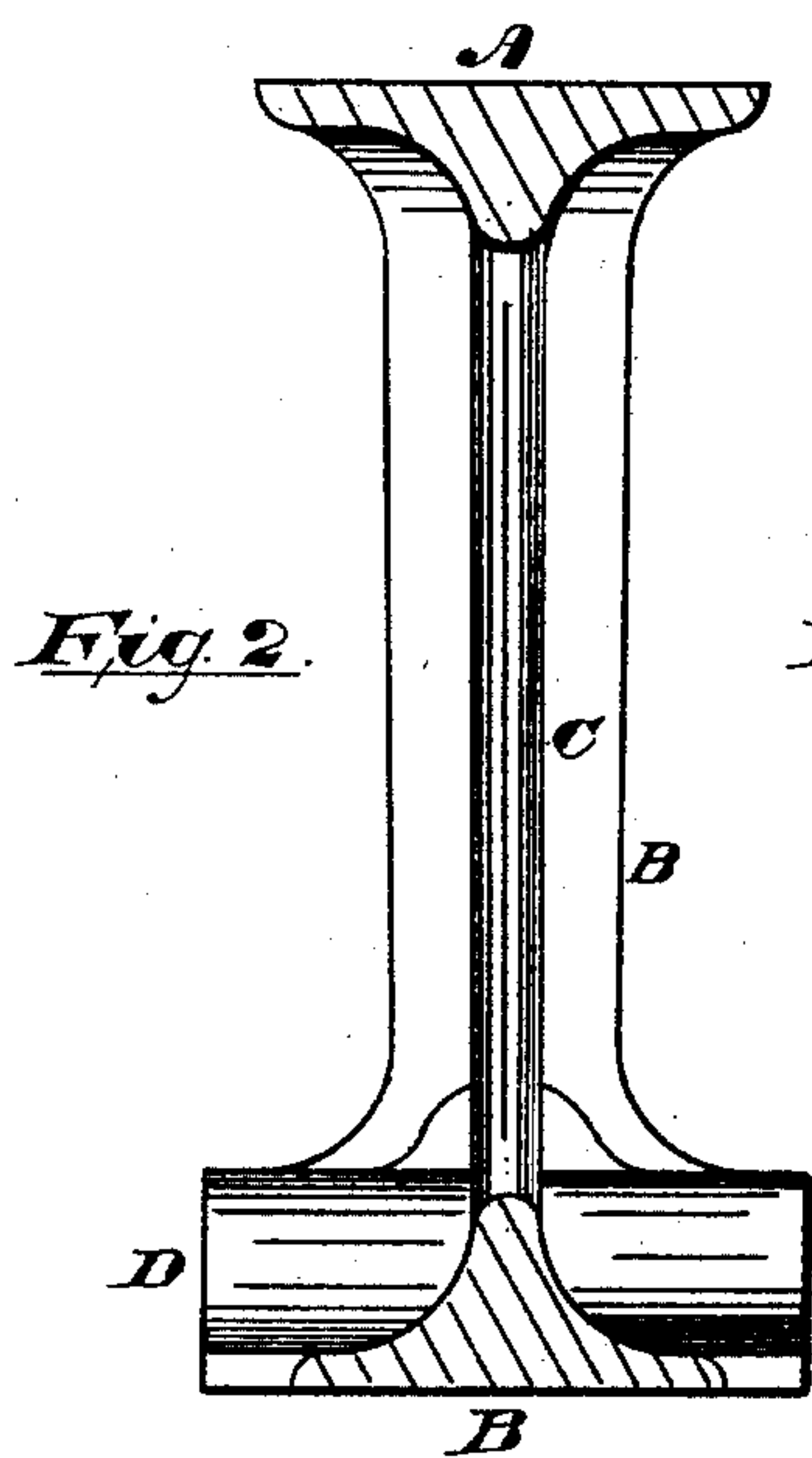
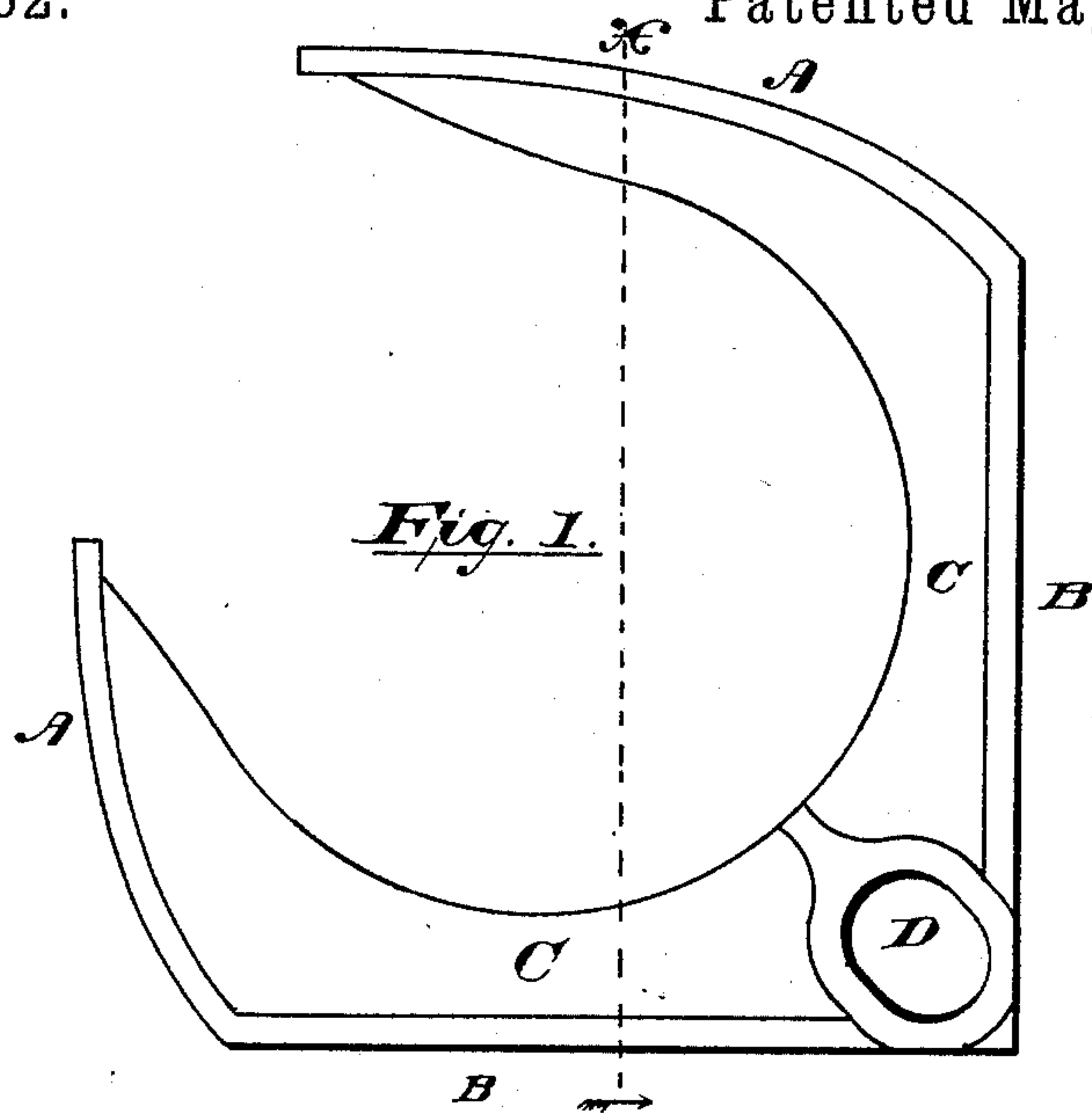
(No Model.)

H. RICHMOND.

COMBINATION DEVICE FOR SHOE MAKERS.

No. 362,182.

Patented May 3, 1887.



—WITNESSES:—

—INVENTOR—

Wm S Corwin,  
Joe C Farr.

Henry Richmond,

BY Drake & Co ATT'YS

# UNITED STATES PATENT OFFICE.

HENRY RICHMOND, OF EAST NEWARK, NEW JERSEY.

## COMBINATION DEVICE FOR SHOE-MAKERS.

SPECIFICATION forming part of Letters Patent No. 362,182, dated May 3, 1837.

Application filed November 26, 1886. Serial No. 219,890. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY RICHMOND, a citizen of the United States, residing at East Newark, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Combination-Tools for Shoe-Makers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide a tool for shoe-makers which may be used as a lap-last for ladies' shoes or gaiters, or may serve as a base or stand to receive long shank-lasts, such as boot-lasts, heeling-lasts, &c.; also, to provide a cheap, durable, and useful tool are further objects of my invention.

The invention consists in an improved tool for shoe-makers and in the arrangements and combinations of parts thereof, substantially as will be hereinafter set forth, and finally embodied in the claim.

Referring to the accompanying drawings, in which like letters indicate corresponding parts in each of the several figures, Figure 1 is a plan of the base portion of my improved last. Fig. 2 is a section through line X, Fig. 1. Fig. 3 is a side elevation of an improved heeling-last; and Fig. 4 is a side elevation of a boot-last, the said heel and boot last being adapted to be held in said base.

In said drawings, Fig. 1 represents a casting provided at the ends thereof with lasts or arm-like projections A A', which are connected by bases B B' and strengthening-ribs C C', said bases being at or approximately at right angles, and are at the sides thereof provided with sockets D, which are formed near the apex of the angle and extend laterally far enough to bring the outer edge thereof in line with the edge of the lasts A A', so that when said casting is placed on its side it will rest in a horizontal position. By this construction either the last A or A' may be used, B serving as a base for the last A', and B' C' as standards therefor, and in turn B' may serve as a base

for last A, and B C as standards; or the whole casting may serve as a base when placed on its side—i. e., with one edge of the lasts and the socket D resting on the floor—for other lasts, such as F and G, the said lasts being adapted to fit in the said socket, as will be manifest. The said socket may be formed on both sides of the casting, as indicated in Fig. 2, thus allowing reversibility, and thereby greatly adding to the utility of said base. Said sockets are adapted to receive the end of the shank E of the heel and boot last F and G. The perforation in the socket may be tapered to insure a snug fit between said shank and the base, as will be understood. Said shank E may be of any desired length and be tapered, as at H, the socket D being tapered correspondingly. Thus when said lasts are desired to be used the end of the shank E may be inserted in the perforation of the socket D, and the casting, being heavy, serves as a base to preserve stable equilibrium, holding the inserted last firmly in a vertical position. By this construction a very cheap, handy, and useful tool is provided, and one that may be used as a lap-last, bench-last, or floor-last, and for both boots and shoes. It is to be observed that any shaped or sized last may be adapted to fit the socket D, and may be readily inserted therein, thus providing a last for any sized boot or shoe.

It is evident that changes may be made in the form and proportion of parts herein shown without departing from the spirit or scope of my invention.

Having thus fully described my invention, what I claim as new is—

In combination with a shoe-maker's tool consisting of two lasts connected by an angular plate of metal and provided with sockets, as D, of lasts provided with a shank, as E, and adapted to fit said socket, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 23d day of November, 1886.

HENRY RICHMOND.

Witnesses:

OLIVER DRAKE,  
WM. S. CORWIN.