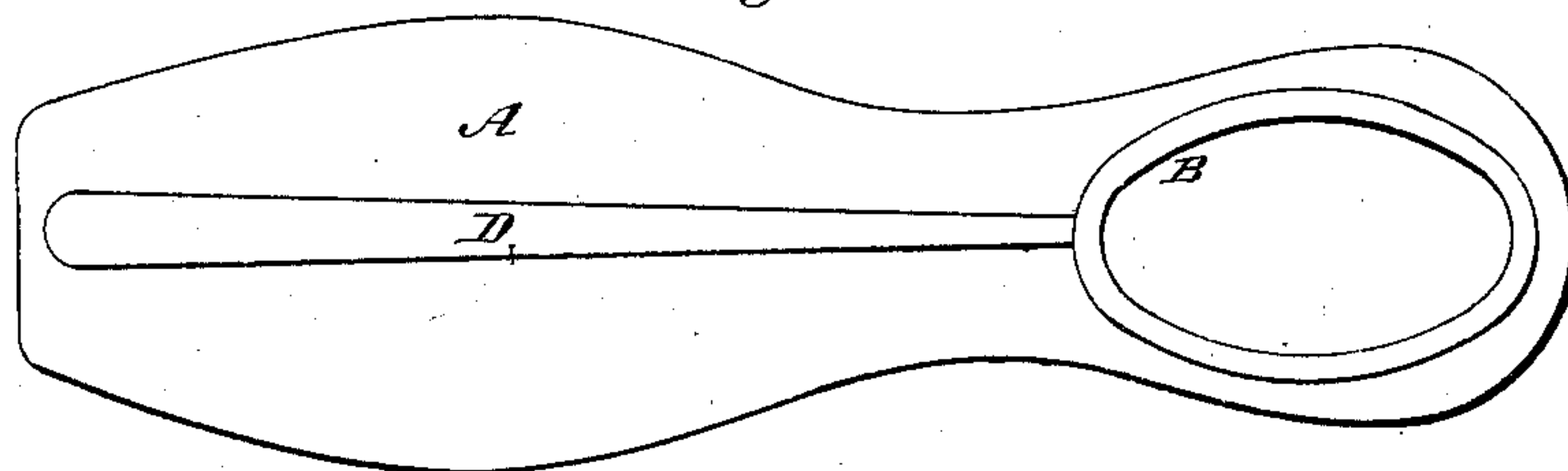


G. MARSHALL.  
LAST.

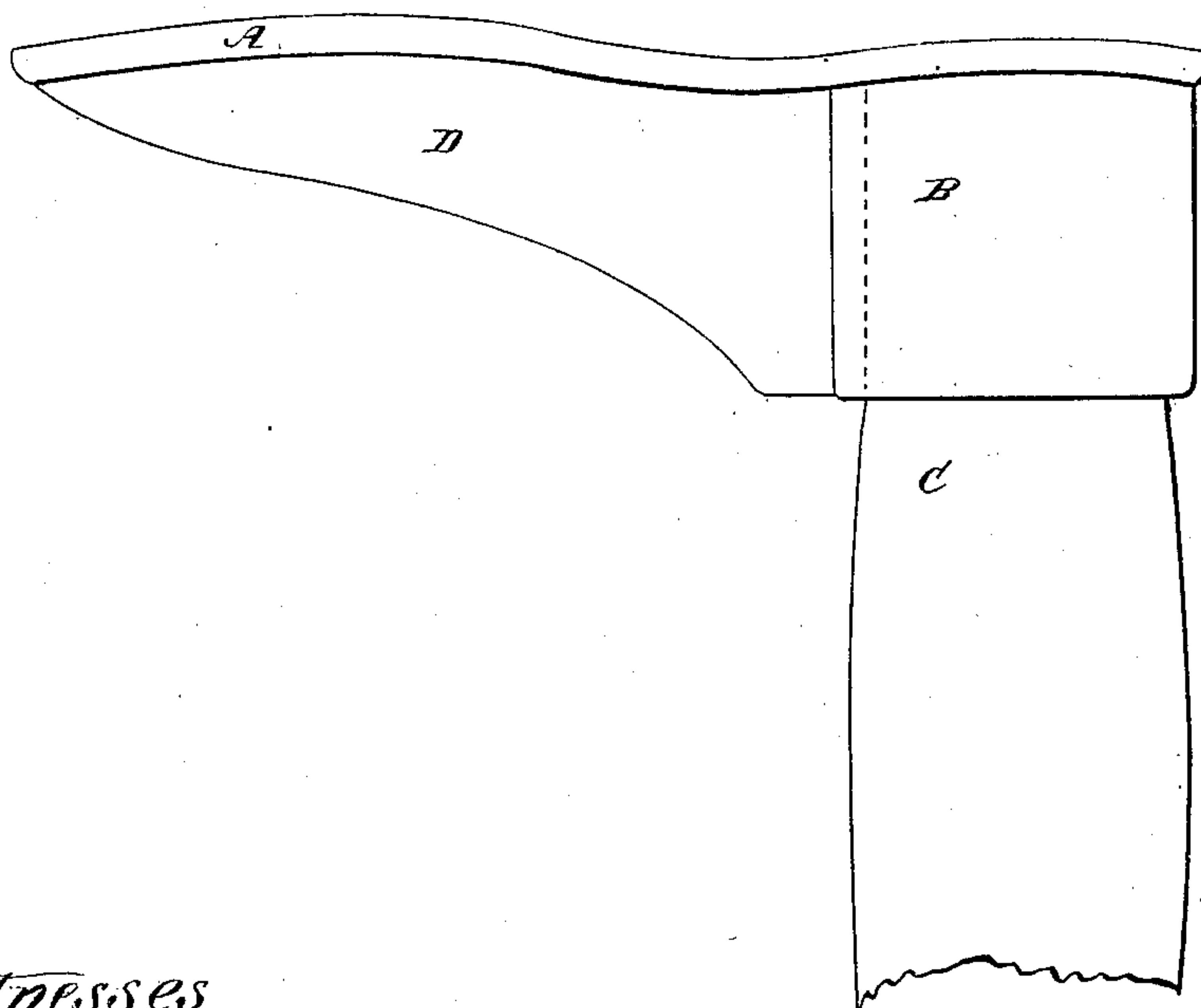
No. 50,252.

Patented Oct. 3, 1865.

*Fig. 1.*



*Fig. 2.*



Witnesses  
J. W. Coombs.  
G. W. Reed.

Inventor:  
George Marshall.

# UNITED STATES PATENT OFFICE.

GEORGE MARSHALL, OF BROOKLYN, E. D., NEW YORK.

## IMPROVED LAST.

Specification forming part of Letters Patent No. 50,252, dated October 3, 1865.

*To all whom it may concern:*

Be it known that I, GEORGE MARSHALL, of the Eastern District of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Cast-Iron Last for Clinching Nails and Breaking Down Pegs in Boots and Shoes; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a plan of a last constructed according to my invention. Fig. 2 is an inverted side view of same, showing the manner in which it is fitted to a wooden stock.

Similar letters of reference indicate corresponding parts in both figures.

An iron last suitable for clinching nails in boots and shoes and for breaking down the points of inwardly-projecting pegs is much required in families, and it is very desirable that it should be as light as is consistent with proper strength, that it may be used by women and young persons.

This invention is intended to supply the above want; and to this end it consists in a last constructed of cast-iron, as hereinafter specified.

The last is composed of a single casting, but may be said to have three parts—viz., a sole, A, a socket, B, and a strengthening rib, C.

The sole A is in profile and on its outer surface to conform nearly to the interior of the

sole of a boot or shoe, and is made as thin as is consistent with proper strength.

The socket B, which is perpendicular to the sole, and situated at the heel end thereof and on the inner side, is of elliptical form and of a width equal, or nearly so, to the width of the heel.

The strengthening-rib C is perpendicular to the general surface of the sole, and is arranged centrally lengthwise of the latter on the same side as the socket. It extends from the socket B to the toe of the sole in taper form, and forms a firm connection between the socket and the whole length of the sole, bracing and stiffening the latter from end to end.

The socket B is for the reception of a stout wooden stock, which is driven firmly thereinto. When the last is to be used this stock is rested on the floor, or on a bench or table, with the last upward, the boot or shoe is put on the last, and the nails or pegs are hammered down from the outside of its sole, and thereby clinched or broken down on the inside.

Having thus described my invention, I claim as a new article of manufacture—

A cast-iron last made with a sole, A, socket B, and strengthening-rib C, substantially as herein described.

GEORGE MARSHALL.

Witnesses:

J. W. COOMBS,  
G. W. REED.