

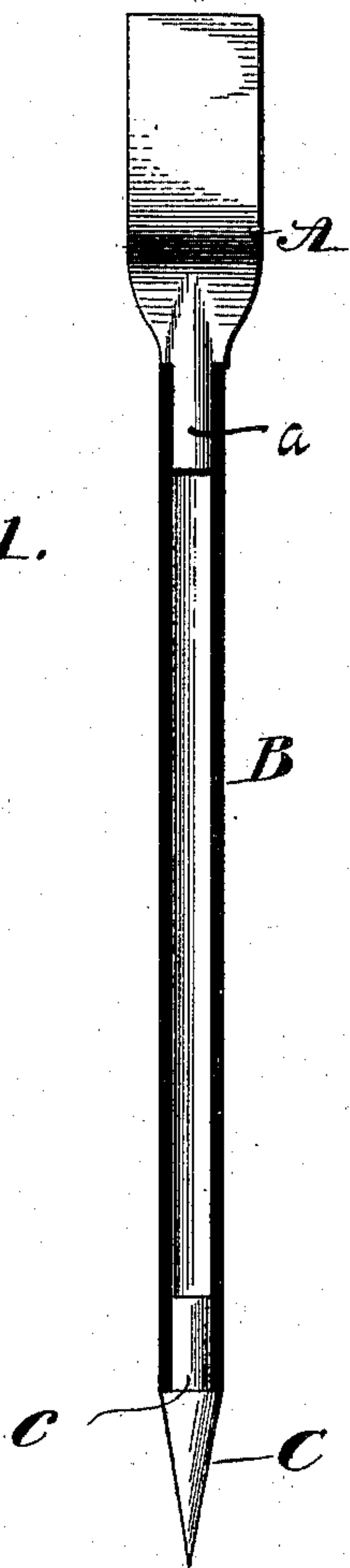
(No Model.)

J. N. M. SHIMER.  
SPADE AND PICK.

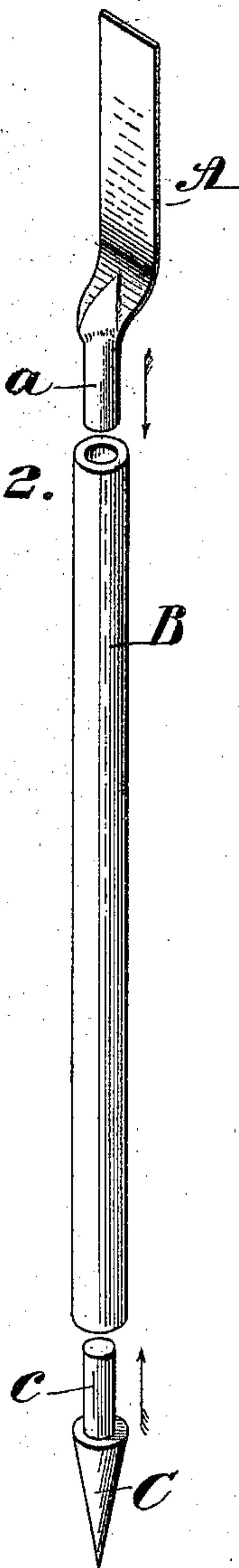
No. 474,697.

Patented May 10, 1892.

*Fig. 1.*



*Fig. 2.*



Witnesses:  
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His Attorney

# UNITED STATES PATENT OFFICE.

JOHN N. M. SHIMER, OF PHILADELPHIA, PENNSYLVANIA.

## SPADE AND PICK.

SPECIFICATION forming part of Letters Patent No. 474,697, dated May 10, 1892.

Application filed November 16, 1889. Serial No. 330,631. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN N. M. SHIMER, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Post-Spades, of which the following is a specification, reference being had to the accompanying drawings, forming part hereof, and in which—  
Figure 1 is a view in side sectional elevation of a combined spade and pick embodying my invention, showing the employment of a hollow metal handle and a blade and pick, each provided with a lug seated within the respective ends of the handle and welded thereto. Fig. 2 is a perspective view of the same.

Heretofore in the construction of spades and the like the blade has been formed with two prongs or extensions inclosing or partly inclosing the tapered end of a wooden handle and riveted thereto, and for this reason is not very durable, in that the handle is thus greatly weakened at its point of attachment to the blade and easily broken. It is an object of my invention to avoid this weak construction of combining the parts and at the same time to provide a spade having combined therewith a pick that will be comparatively light in weight, simple in construction, cheap, and durable.

My invention relates generally to a new and improved construction of spades and the like and specifically to the class of spades adapted for the digging of post-holes; and it consists in the employment of a hollow metal handle and the welding thereto at one end of a spade-blade or the like and the combination therewith of a conically-shaped pick to facilitate the removal of encountered obstructions, welded to the handle at its opposite end, and to this end consists of the arrangement and combination of parts hereinafter fully described and claimed.

In the drawings, A is the blade, B the handle, and C the pick.

In construction the blade A, which may be of any desired pattern as to its body portion and cutting-edge, is preferably made of steel and provided at its end opposite its cutting-

edge with a lug *a*. The handle B is hollow, and is conveniently formed of a piece of iron tubing of a desired diameter and length. The lug *a* of the blade A is of size sufficient as to diameter to snugly fit the interior of the hollow handle B at one end, and when placed the parts are welded together to form a rigid whole. The pick C is also preferably made of steel to a desired size, conically shaped, and at its base end—that is to say, opposite its apex—provided with a lug *c* and likewise adapted to snugly fit the interior of the end of the hollow handle B opposite to that occupied by the lug on the blade A, and is welded thereto to form a rigid part thereof.

As will be obvious, an implement constructed in accordance with my invention, combining a spade and pick, is of great practical use and furthermore possesses in its entirety the advantage of being non-destructible.

I do not wish to be understood as restricting my invention to the exact construction shown and described, as it will be apparent that modifications of the same may be adopted to serve equally as well without departing from the spirit of my invention strictly as such. Thus, for instance, the lugs *a* and *c* may be made hollow as a whole or divided into two or more prongs and adapted to inclose or partly inclose the respective ends of the hollow metal handle B and subsequently welded thereto to form a perfect and rigid whole. For the same reason the pick may also be of a form other than conical.

Having thus described my invention, I claim—

As a new article of manufacture, an excavating-tool comprising a tubular metal handle and the tool proper, also of metal, said tool proper provided with a shank having a shoulder, said shank adapted to snugly fit within the tubular handle and its shoulder to abut against the same and the parts welded together, as described.

In testimony whereof I have hereunto signed my name this 11th day of November, A.D. 1889.

JOHN N. M. SHIMER.

In presence of—

J. HENRY WILLIAMS,  
JOHN JOLLEY, Jr.