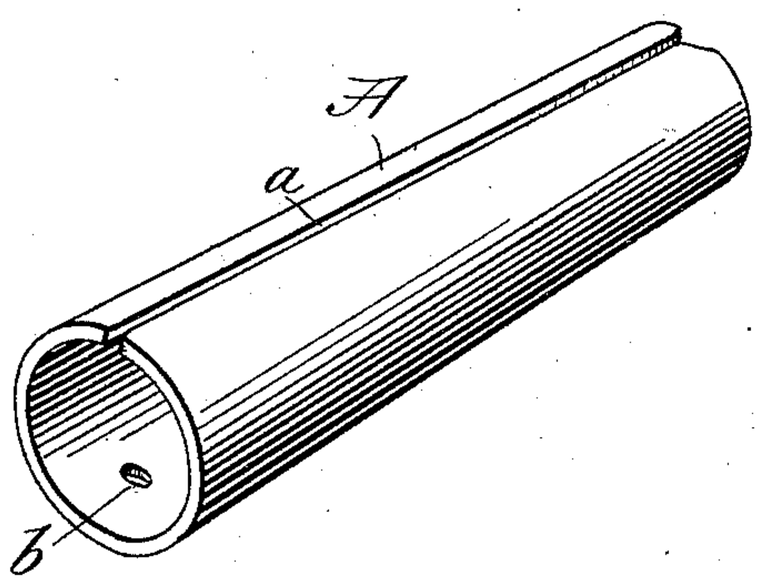
(No Model.)

R. E. BREED.

TOOL SOCKET.

No. 408,336. Patented Aug. 6, 1889.



Attest:
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UNITED STATES PATENT OFFICE.

RICHARD E. BREED, OF PITTSBURG, PENNSYLVANIA.

TOOL-SOCKET.

SPECIFICATION forming part of Letters Patent No. 408,336, dated August 6, 1889.

Application filed June 12, 1884. Serial No. 134,640. (No model.)

To all whom it may concern:

Be it known that I, RICHARD E. BREED, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Tool-Sockets; and I do 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 drawing, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in sockets and ferrules for the handles of tools and implements; and it consists of a spring-socket constructed as hereinafter described and claimed.

The annexed drawing represents a perspective view of my improved spring-socket.

The letter A designates the socket or ferrule, which is preferably constructed of cast-steel and tempered. The socket or ferrule A is split longitudinally, as shown at *a*, on one side. The effect of this slit *a* is to make the socket a spring-socket, which will clasp the handle of a tool or implement tightly whether the wood be wet or dry, green or seasoned. The socket may be provided with one or more apertures *b* for the reception of rivets or screws for securing the socket to its handle. This improved split spring socket or ferrule A may be applied to the handles of various kinds of tools and implements, as shovels, spades, hoes, rakes, forks, &c. For such tools as chisels the ferrule may be drawn out in connection with or be welded or otherwise secured to the shank. When securing a rake or hoe to a handle by means of the spring-socket, the socket is to be connected with the head of the implement either by welding the end of the socket to the head or in forming the head and socket in one piece, or in any other suitable manner. After the socket is sprung around the end of the handle it may be further secured thereto, if desired, by means of rivets, screws, or bolts passed through the holes *b b*. Thus it will be seen that my invention affords a spring socket or ferrule which will always tightly clasp or accommodate itself to the expansion or contraction of the handle.

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

The herein-described metallic spring-socket for the handles of tools, having a longitudinal split or opening on one side and adapted for use substantially in the manner and for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

RICHARD E. BREED.

Witnesses:
A. J. KELLY, Jr.,
W. L. HARDY.