No. 817,090. PATENTED APR. 3, 1906.

C. PFEIFFER.

BOOT CALK.

APPLICATION FILED NOV. 15, 1904.

Fig. 1.

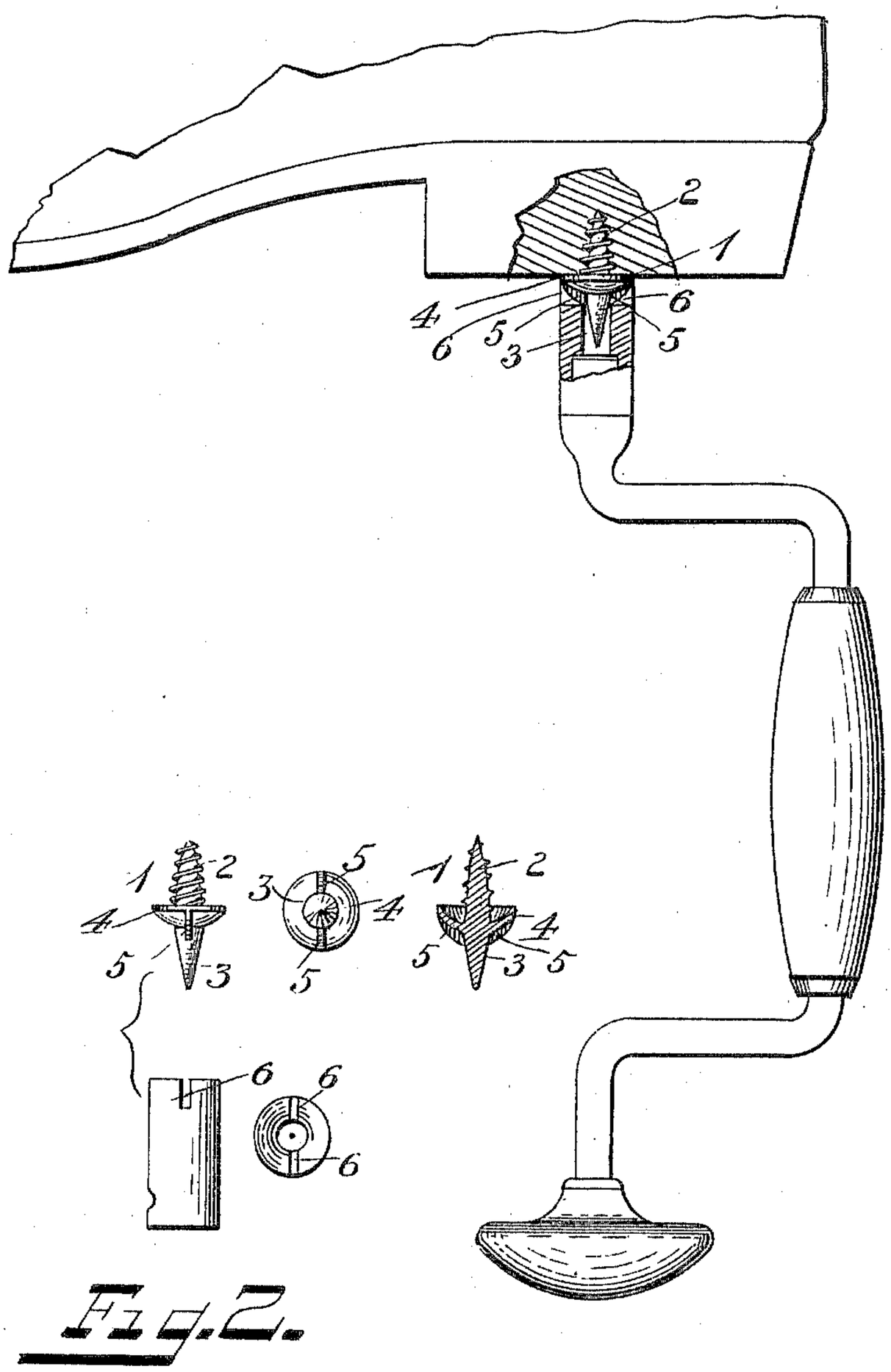

Fig. 2.

WITNESSES:
Franck L. Durand
Albert Popkins

INVENTOR
Christian Pfeiffer

BY
Sturtevant & Cooley
Attorneys

UNITED STATES PATENT OFFICE.

CHRISTIAN PFEIFFER, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE NORTH & PFEIFFER MANUFACTURING COMPANY, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

BOOT-CALK.

No. 817,090. Specification of Letters Patent. Patented April 3, 1906.

Application filed November 15, 1904. Serial No. 232,847.

To all whom it may concern:

Be it known that I, CHRISTIAN PFEIFFER, a citizen of the United States, residing at New Britain, in the county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Boot-Calks, of which the following is a description, reference being had to the accompanying drawings, and to the figures of reference marked thereon.

My invention relates to an improvement in boot-calks of the kind used by lumbermen and loggers, and is an improvement upon the device illustrated in the patent granted A. B. Lipscomb, August 11, 1903, No. 736,121.

As shown in said patent, a dished stop is employed having the threaded shank and spike, the spike for a portion of its length adjacent the stop-disk being square in cross-section, the remaining portion of its length being circular or approximately circular in cross-section and tapered to a sharp point.

In practice it has been found very difficult to get the square on the calk sufficiently large to afford a good bearing-surface, and it is difficult in squaring the hole in the chucks to keep them uniform. Thus the chucks do not fit closely on the squared portion and there is a tendency to slip. As soon as the chucks have slipped once or twice the corners begin to wear round and are soon useless.

It is the object of the present invention to overcome these defects and at the same time increase the strength of the dished stop.

The invention therefore consists in the matters hereinafter described and referred to in the appended claims.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a view in sectional elevation showing the manner in which the calk is applied to the boot-heel. Fig. 2 is a view in elevation of the calk and chuck.

In the drawings, 1 represents the calk, comprising the threaded shank 2, the spike 3, and the dished stop-disk 4. The latter has the integral ribs 5, extending from the shank portion of the spike 3 to the periphery of the dished stop, these ribs being adapted to fit recesses 6 in the chuck-bit brace, whereby a positive holding of the chuck to the calk is provided without any danger of slipping or wearing away of the shank and serving to strengthen the disk.

By the use of the ribs a strong and positive hold of the chuck on the body of the calk itself is possible, the spike portion thereof not being engaged at all, and by this construction the spike may be made round instead of squared and thinner in cross-section than heretofore and even when worn away materially will still be sharp enough to perform its function, whereas in the former construction as soon as the spike portion had worn down to the squared portion the spike became too blunt for use. Furthermore, by this construction only a round hole has to be made in the center of the chuck, thus cheapening the cost thereof.

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

1. As a new article of manufacture, a boot-calk having a dished stop-disk, a screw-threaded shank extending from the concave side thereof, and a spike extending from the convex side of the disk, said spike tapering toward its lower end, the surface of the disk from which the spike extends having strengthening-ribs extending from the spike toward the periphery of the disk, and adapted also to be engaged by the chuck of an inserting-tool, the ribs terminating short of the point of the spike, substantially as described.

2. A boot-calk comprising a dished disk having radiating ribs on its convex side, a spike projecting beyond the ribs, and a threaded shank extending from the concave side of the disk.

3. A boot-calk comprising a dished disk having radiating ribs on its convex side, a cone-shaped spike projecting beyond the ribs, and a threaded shank extending from the concave side of the disk.

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

CHRISTIAN PFEIFFER.

Witnesses:
J. H. KIRKHAM,
C. S. STURTEVANT.