

T. SKELLY.
WHIFFLETREE BOLTS.

No. 171,743.

Patented Jan. 4, 1876.

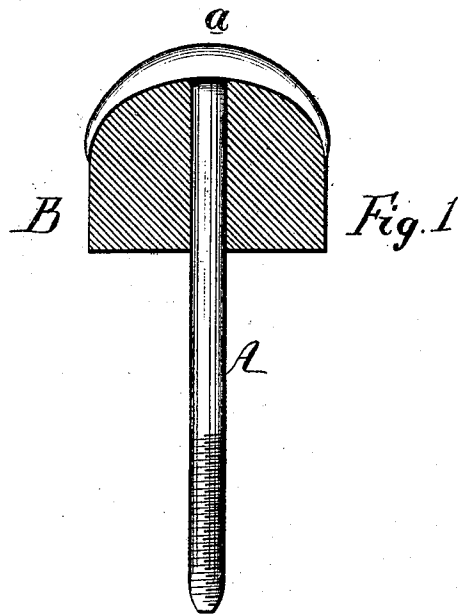
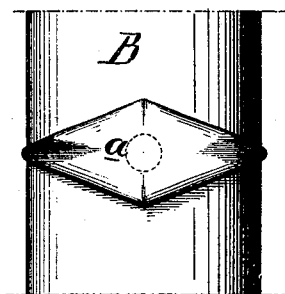


Fig. 2.



Witnesses, *E. B. Eckfeldt*
Harry Smith,

Thomas Skelly
by his Attorneys
Howson and Son.

UNITED STATES PATENT OFFICE.

THOMAS SKELLY, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN WHIFFLETREE-BOLTS.

Specification forming part of Letters Patent No. **171,743**, dated January 4, 1876; application filed March 24, 1875.

To all whom it may concern:

Be it known that I, THOMAS SKELLY, of Philadelphia, Pennsylvania, have invented an Improved Whiffletree-Bolt, of which the following is a specification:

The object of my invention is to construct a whiffletree-bolt with a head formed for ready application and accurate fitting to the rounded top of the whiffletree; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a transverse section of a whiffletree with my improved bolt; and Fig. 2, a top view, showing the head of the bolt.

Whiffletree-bolts have usually been made with extended flat heads, which have either been arranged longitudinally on the whiffletree and let into the wood, or, if placed transversely, have been hammered down and bent onto the rounded top of the whiffletree, so as to conform, or nearly conform, with the rounded top of the same, the wood in both cases being more or less wounded, and the bending of the flat head of the bolt tending to impair the same.

I overcome these objections by making the head *a* of the bolt or stem *A* of the form shown in the drawing, so that the under side of the

said head will conform with the rounded top of the whiffletree *B* throughout the greater portion of its extent, thereby obviating the necessity of hammering the head except at the extreme ends, where the metal is reduced in thickness, so that the slight hammering necessary at this point will not be sufficient to wound the wood of which the whiffletree is composed. This head I make by suitable dies during the operation of manufacturing the bolt, the dies being such as to impart the desired shape and finish to the head, so that no filing of the same is required after it has been fitted to its place.

I do not claim, broadly, a whiffletree-bolt having an elongated tapering head; but

I claim as my invention—

As a new article of manufacture, a whiffletree-bolt consisting of the threaded stem *A* and a head, *a*, tapered at its opposite ends, and swaged to conform to the rounded head of the whiffletree, all as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS SKELLY.

Witnesses:

HUBERT HOWSON,
HARRY SMITH.