

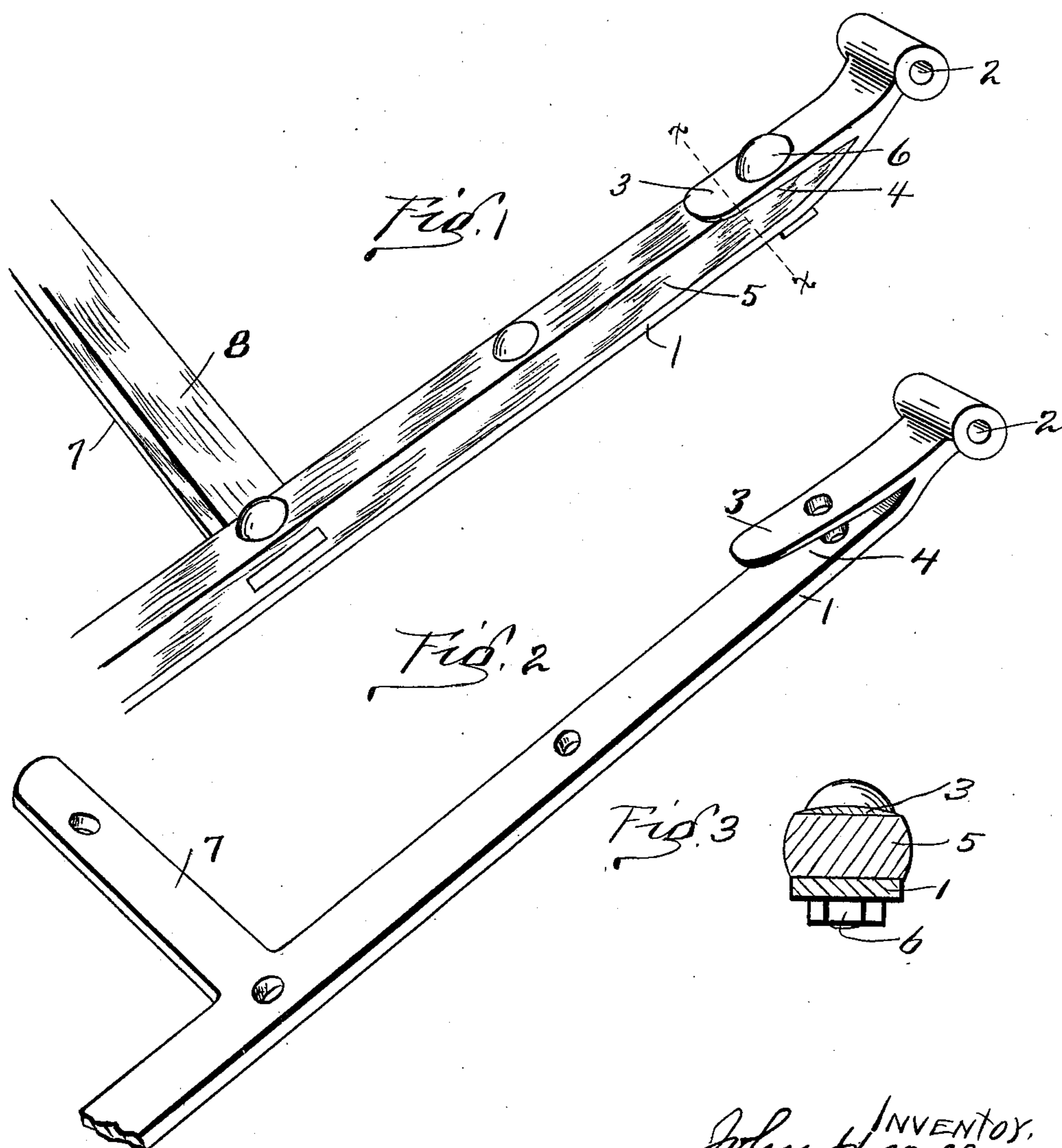
No. 613,996.

Patented Nov. 8, 1898.

J. HOWELL.  
THILL IRON.

(Application filed Feb. 21, 1898.)

(No Model.)



WITNESSES.  
*E. J. ...*  
J. R. Bond

INVENTOR,  
*John Howell*  
By *Fred W. Bond*  
ATTY.

# UNITED STATES PATENT OFFICE.

JOHN HOWELL, OF CANTON, OHIO, ASSIGNOR OF ONE-THIRD TO URBAN  
E. ESSNER, OF SAME PLACE.

## THILL-IRON.

SPECIFICATION forming part of Letters Patent No. 613,996, dated November 8, 1898.

Application filed February 21, 1898. Serial No. 671,037. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN HOWELL, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Thill-Irons; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a view showing the wood connected to the thill-iron. Fig. 2 is a perspective view of the thill-iron. Fig. 3 is a view through line *xx*, Fig. 1.

The present invention has relation to thill-irons; and it consists in the novel arrangement hereinafter described, and particularly pointed out in the claim.

Similar numbers of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents the thill-iron, which is connected to the bottom or under side of the thill in the ordinary manner and is provided with the eye 2. The upper side of the thill-iron 1 is provided with the integral part or portion 3, which integral portion is so located that a space 4 will be formed between the upper side of the thill-iron 1 and the under side of the portion or clip 3. In use the wood thill 5 is formed at its rear end to conform with the shape and size of the space between the thill-iron 1 and the integral clip or portion 3.

For the purpose of securely connecting the wood thill 5 to the thill-iron 1 at its rear end the clamping-bolt 6 is passed through suitable apertures formed in the clip 3, the wood 5, and the thill-iron 1.

It will be understood that by my peculiar arrangement I am enabled to securely connect the rear end of the wood portion of the thill in such a manner that it cannot become detached, and at the same time no separate clips are employed. By the arrangement shown the force brought against the thill proper during the time the vehicle is being backed, the wood portion 5 will be pressed against the vertex of the thill-iron and clip 3.

It will be understood that the usual lateral portion 7 is to be formed upon the thill-iron 1, so that the cross-bar 8 can be attached in the usual manner.

The thill-iron 1 is the support for the wood thill 5 and is bent to conform with the bend of the thill proper. The lip or integral portion forms no part of the main thill-iron except to lap or embrace the rear end of the thill.

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

As an improved article of manufacture, a thill-iron consisting of the main thill-support 1 extended under the thill and provided at its rear end with the eye 2, and the extended portion provided with the lateral portion or brace 7, and the short lip 3 located at the rear end of the thill-support, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN HOWELL.

Witnesses:

J. A. JEFFERS,  
URBAN E. ESSNER.