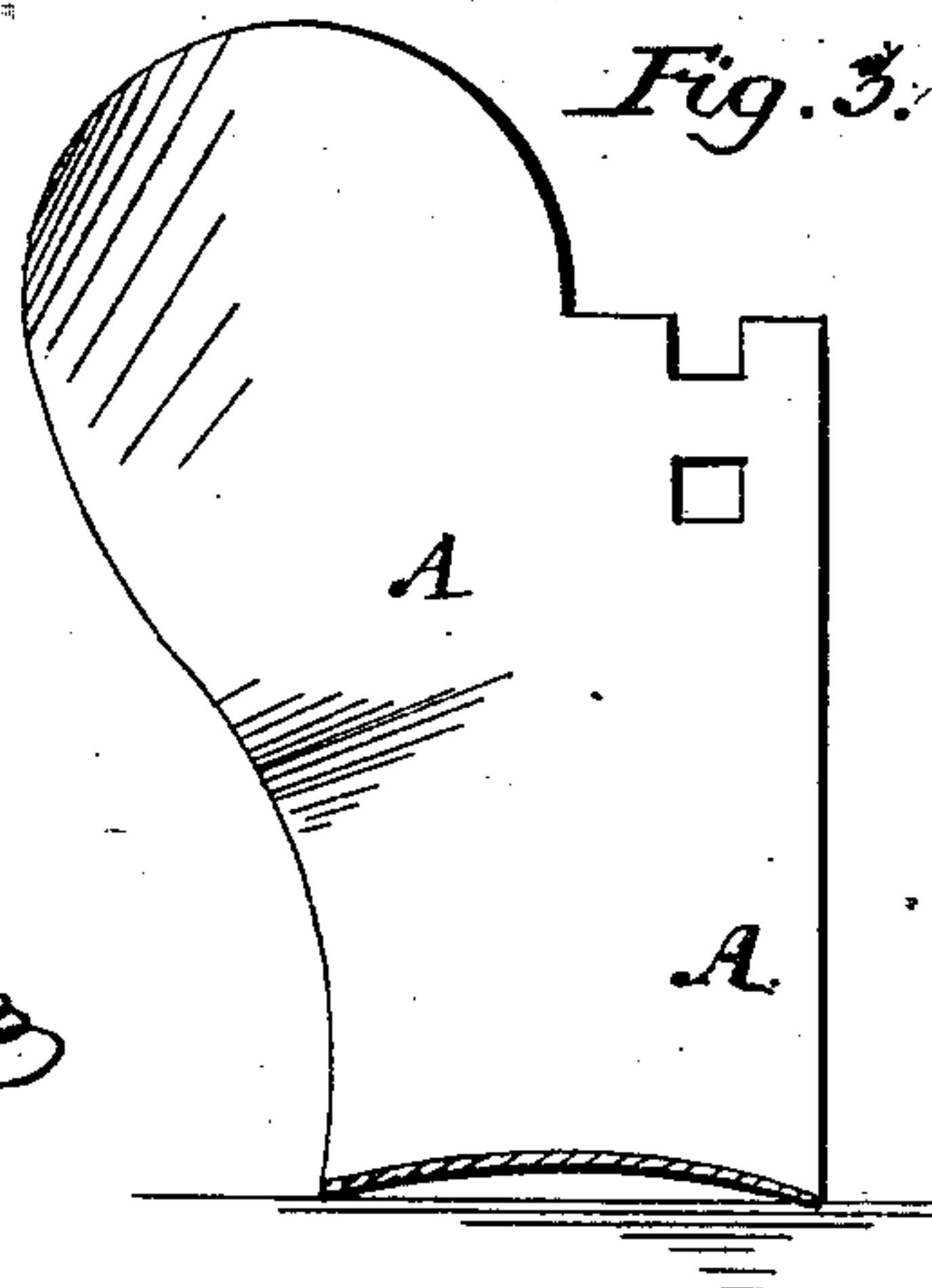
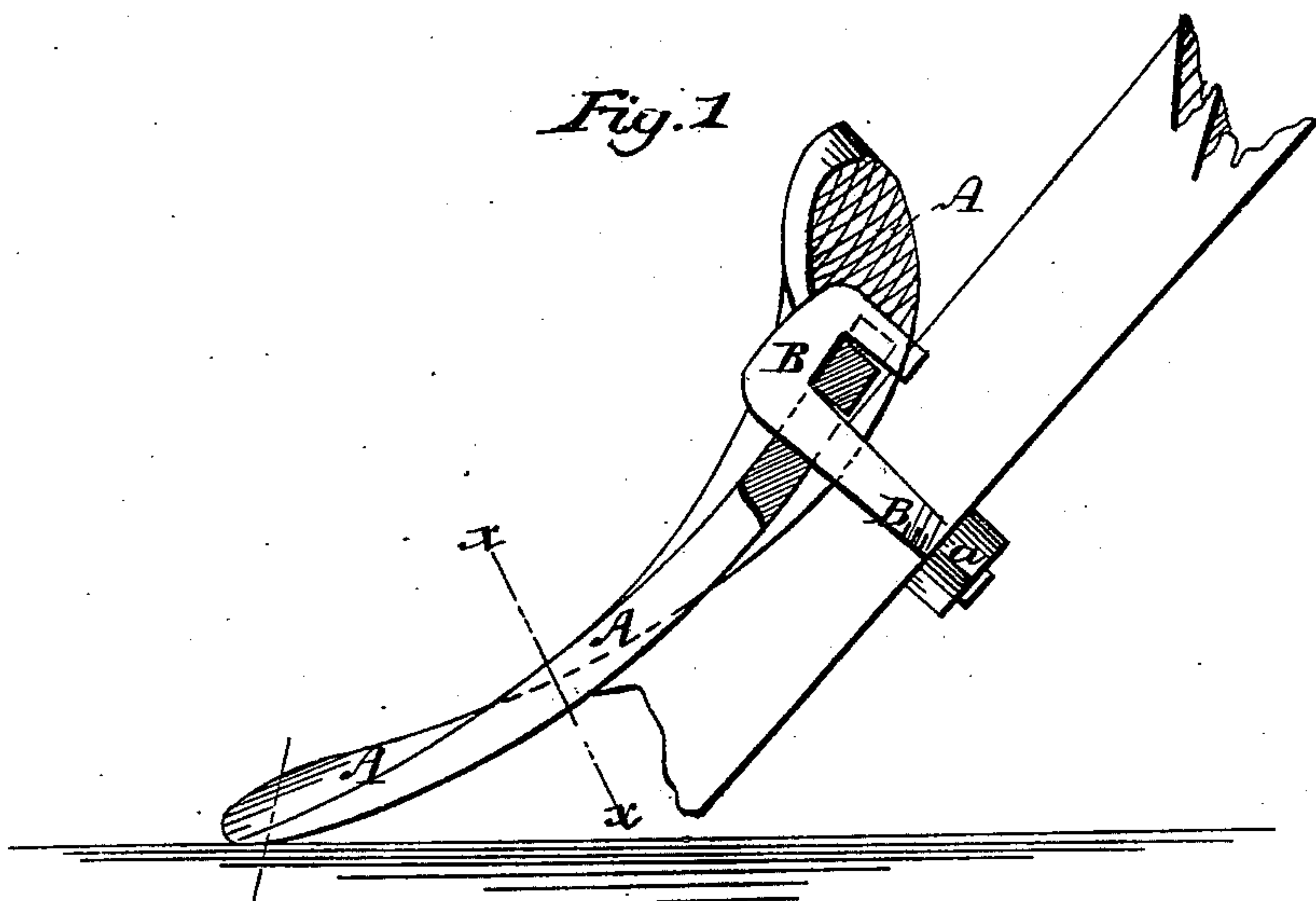


G. W. COOPER.

Plow Point.

No. 84,798.

Patented Dec. 8, 1868.



WITNESSES:

*W. C. Salikettle*  
*J. A. Service*

INVENTOR:

*G. W. Cooper*  
*per Munn & Co.*  
*Attorneys.*



GEORGE W. COOPER, OF OGEECHEE, GEORGIA.

*Letters Patent No. 84,798, dated December 8, 1868.*

**IMPROVEMENT IN PLOWSHARES.**

*The Schedule referred to in these Letters Patent and making part of the same.*

*To all whom it may concern :*

Be it known that I, GEORGE W. COOPER, of Ogeechee, in the county of Scriven, and State of Georgia, have invented a new and improved Plowshare; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 represents a side elevation of my improved plowshare.

Figure 2 is a transverse section of the same, taken on the plane of the line *x-x*, fig. 1.

Figure 3 is a front elevation, partly in section, of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new mode of constructing plowshares, and also to a new manner of securing the same to the foot.

The plowshare is made of cast-iron, and, by its peculiar shape and construction, it can be made without a landside-plate.

The fastening-device is a U-shaped bolt, passing with one arm through the share and foot, and with the other arm through the share into the foot, so that, by means of one bolt and nut, the effect of two bolts and nuts, without their disadvantages, is produced.

A, in the drawing, represents my improved plowshare. The same is made, of cast-iron, in such a manner that those parts where it is most liable to break are made thickest, while the other parts are thinner.

The line *x-x* in fig. 1 indicates the weakest part of every plowshare, and, from fig. 2, it will appear that I overcome such weakness by making the metal thicker than at other places.

There is no landside-plate employed on this improved share. The share is made rather thick on the landside, so as to balance the plow properly. The landside-plate is generally employed for the purpose of retaining the plow in the desired direction. To obtain the same result without the landside, I have made the front cutting-edge of my share of peculiar shape, as in fig. 3, that is, concave on the under side. Thereby the plow will be caused to rest on the left-hand edge, and will be fully obedient to the guidance.

The share is fastened to the foot by means of a bolt, B, and nut, *a*, the head of the bolt being hook-shaped, as shown in fig. 1, so that the one bolt and nut may be employed with precisely the same effect with which two bolts were heretofore used.

The bolt B may be used for fastening any suitable kind of share to the foot.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

A cast-iron plowshare, A, made, as described, without a landside-plate, and with a concave front edge, substantially as and for the purpose set forth.

G. W. COOPER.

Witnesses:

WM. F. MCNAMARA,  
ALEX. F. ROBERTS.