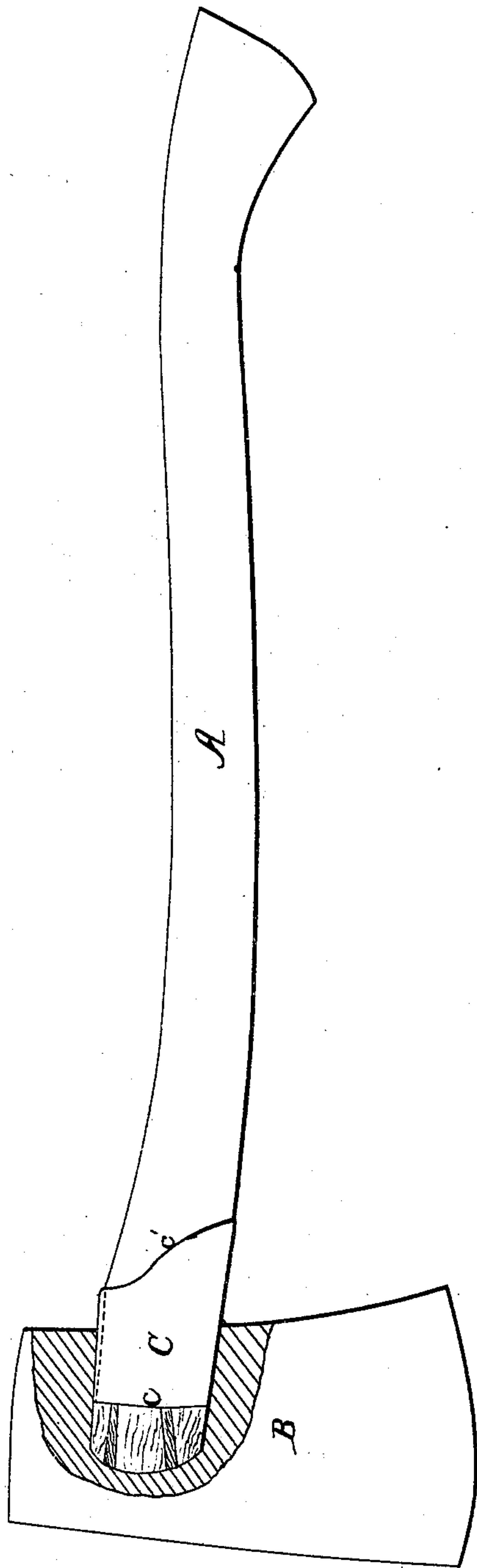


*B. Butler.*

*Axe Handle Shield.*

*N<sup>o</sup> 86,130.*

*Patented Jan. 26, 1869.*



*Witnesses.*  
*Wm. G. Fretton Jr.*  
*W. B. Denning*

*Inventor.*  
*Beauman Butler*  
*by Knighting*  
*Attorney*

# United States Patent Office.

BEAUMAN BUTLER, OF ST. JOHNSBURY CENTRE, VERMONT.

*Letters Patent No. 86,130, dated January 26, 1869.*

## IMPROVEMENT IN AXE-HANDLE SHIELD.

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, BEAUMAN BUTLER, of St. Johnsbury Centre, in the county of Caledonia, and State of Vermont, have invented a new and useful Improvement in Axe-Helve Protectors; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, which is made a part of this specification.

My invention consists of a metallic ferrule or shield, of peculiar form, to be applied to the helve, where it enters the eye of the axe, to protect it from being bruised and worn near the eye, where the helve generally fails first when unprotected, to extend the support of the eye, and to distribute the strain of side-thrusts, &c., over a greater sectional area. The provision for the latter purpose constitutes more particularly the subject of my improvement, and consists in constructing the shield or ferrule with an oblique or diagonal terminal edge.

The drawing represents an elevation of an axe provided with my improved protector, a portion of the blade being broken away, to illustrate the manner of applying it.

A may represent the helve, and B, the head, both of which may be of any of the ordinary forms.

C represents the protector, which is made of wrought or cast-iron, in any suitable manner. It may be of tapering thickness to its entering-point *c*, as shown, to adapt it to be more readily inserted in the eye of the axe, or of equal thickness throughout, as preferred. It projects into the eye about an inch, and extends down on the helve, at its under side, about two or two and

a half inches, and at its upper side about three or three and a half inches, thus making its rear edge, *c'*, oblique or diagonal, which renders the helve capable of sustaining a much greater side-strain, as it would require a much greater force to break the helve diagonally at the edge of the protector than at right angles, owing to the greater sectional surface to be separated. I prefer to compose the oblique edge *c'* of the protector of curved lines, as shown, but it may be a plane line, if preferred.

When the ferrule is made of sheet or wrought-metal, it is brazed or welded on its upper or short side, and when of malleable iron, which may be the preferable material, it is proposed to cast it a little thicker on the under side.

The protector is driven on the helve as it enters the eye of the axe, and the helve is then secured by one or more wedges, *d*, in the ordinary manner.

I claim, and desire to secure by Letters Patent—

As a new article of manufacture, the axe-helve protector herein described, consisting of a ferrule, C, of taper-form, adapted to fit upon a common axe-helve, A, within a common axe-head, B, and formed with an oblique rear edge, *c'*, all substantially as and for the purposes specified.

To the above specification of my axe-helve protector, I have signed my hand, this 20th day of October, 1868.

BEAUMAN BUTLER.

Witnesses:

OTIS G. HALE,  
C. F. RAMSAY.