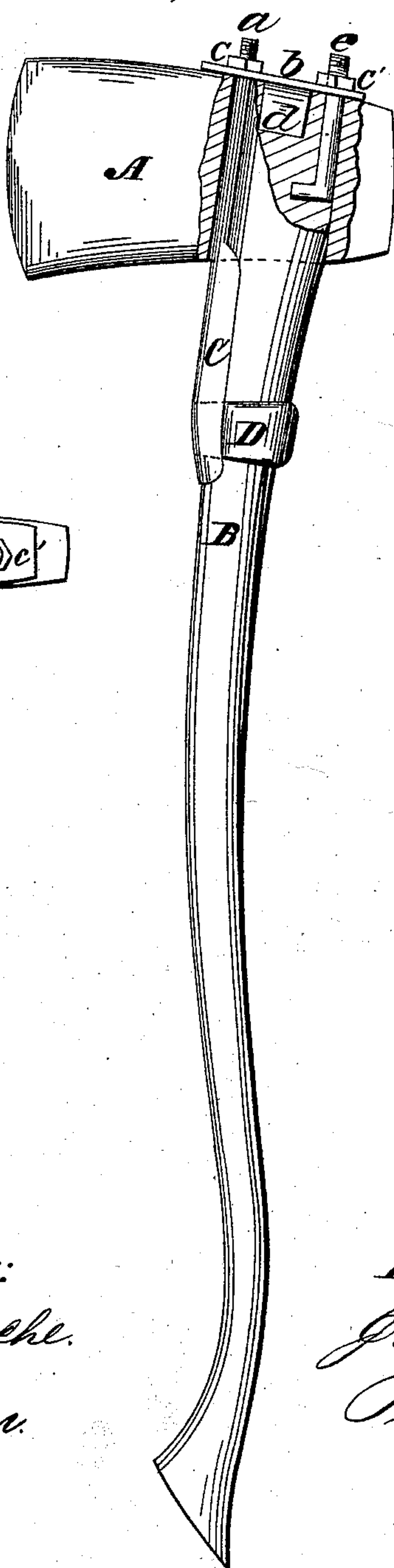


*J. Stewart.*  
*Tool Handle.*

*Nº 70,284.*

*Patented Oct. 29, 1867.*

*Fig. 2.*



*Fig. 1.*



*Witnesses:*  
*Theo. Tuschke.*  
*Wm. Freuin.*

*Inventor:*  
*Gas Stewart.*  
*Per Munro & Co.*  
*Attorneys.*

# United States Patent Office.

JAMES STEWART, OF MONEY CREEK, MINNESOTA.

*Letters Patent No. 70,284, dated October 29, 1867.*

## IMPROVEMENT IN MODE OF ATTACHING AXES TO THEIR HANDLES.

*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, JAMES STEWART, of Money Creek, in the county of Houston, and State of Minnesota, have invented a new and improved Fastening for Axe and other Handles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an end view of an axe with my improved fastening.

Figure 2 represents my improved fastening applied to an axe-helve.

Similar letters of reference indicate like parts.

The object of this invention is to fasten helves or handles in axes, picks, hammers, &c., for the purpose of securing them firmly and permanently in the eye thereof, and it consists in attaching a metal plate or strap on one side or edge of the helve, held in place by a clip, and, passing through the eye of an axe or pick, forms a screw-bolt, fastened by a nut to a plate over the eye of the axe or pick, as hereinafter more particularly described.

The letter A represents an ordinary chopping-axe, and B the helve. On the inner edge or side of the helve next the blade an iron strap or plate, C, is fitted on the helve B, and held to it by a clip, D, riveted to it. The plate C is rounded to form a bolt, *a*, at the upper end, passing through the eye of the axe with the helve. A plate, *b*, is laid over the eye of the axe, and the bolt *a* passes through it, so that it serves as a washer for the nut *c* on the bolt. A wedge, *d*, is inserted in the end of the helve, and may either form a part of the plate *b* or be separate from it. The helve being introduced in the eye of an axe, for example, the bolt *a* on the strap or plate C, and the bolt *e* also, are drawn up with the helve, and held firmly by the nuts *c c'* over the washer-plate *b*. This mode of fastening the helve is not only very strong and durable, but the plate C protects the helve of an axe at that part where it is usually worn away by service.

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

The improved fastening for axe-helves and other tool-handles, consisting of a plate, C, attached by a clip, D, and secured by a bolt, *a*, to the handle, in combination with the bolt *e* and the wedge *d*, constructed and arranged to operate as herein described.

JAMES STEWART.

Witnesses:

WALTER McARTHUR,  
CATHARINE McARTHUR.