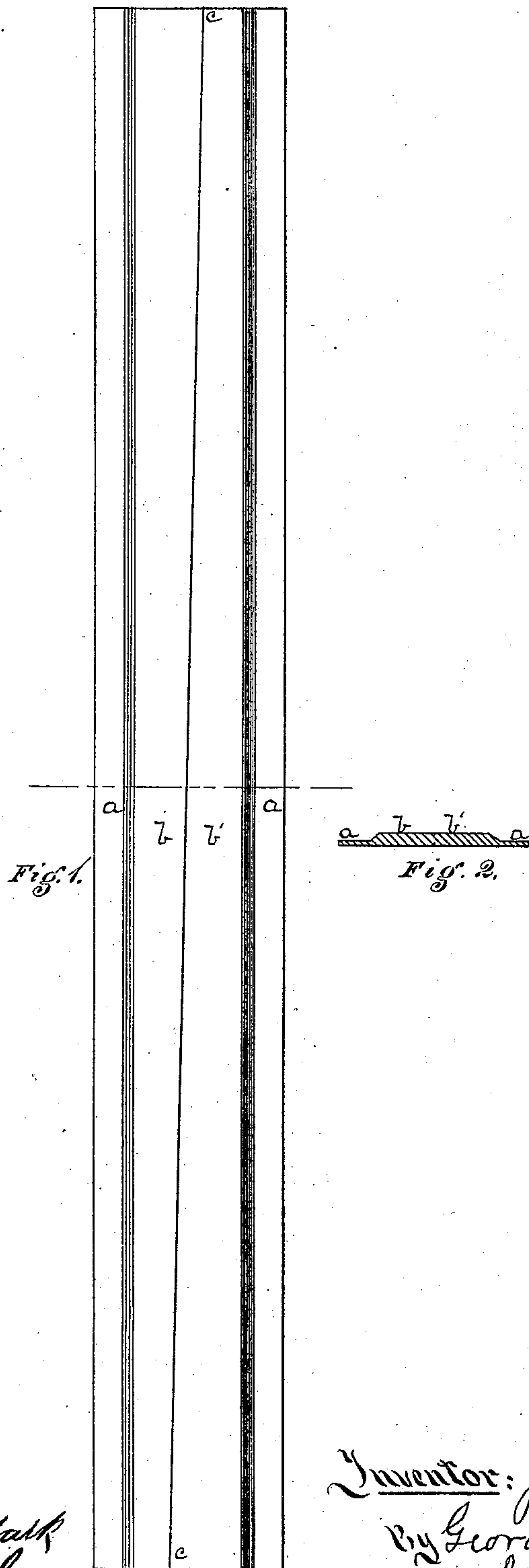


J. S. ATKINSON.

MANUFACTURE OF FINGER-BARS.

No. 186,972

Patented Feb. 6, 1877.



Witnesses

Francis L. Clark  
F. J. Weigel.

Inventor: James S. Atkinson,  
By George H. Christy,  
his Att'y.

# UNITED STATES PATENT OFFICE.

JAMES S. ATKINSON, OF PITTSBURG, ASSIGNOR TO BENJAMIN F. JONES, OF ALLEGHENY, PENNSYLVANIA.

## IMPROVEMENT IN THE MANUFACTURE OF FINGER-BARS.

Specification forming part of Letters Patent No. 186,972, dated February 6, 1877; application filed September 29, 1876.

*To all whom it may concern :*

Be it known that I, JAMES S. ATKINSON, of Pittsburg, county of Allegheny, State of Pennsylvania, have invented or discovered a new and useful Improvement in Finger-Bar Blanks; and I do hereby declare the following to be a full, clear, concise, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, in which—like letters indicating like parts—

Figure 1 is a face view of my improved cutter-bar blank, and Fig. 2 is a cross-section thereof.

My improvement consists in a blank for cutter-bars of reaping and mowing machines, and harvesters, such blank being produced by rolling through suitably-grooved rolls, so as to have on each edge a thin part, *a*, of suitable width for the attachment of the guards thereto, and an intervening thick part, *b b'*, wide enough for the separation of the entire blank into two bars each of the proper size and shape by a diagonal or oblique cut along the line *c c*, extending from end to end.

These blanks I manufacture in about the following proportions: Length, four feet six inches; width, six and three-eighths inches; thickness of the part *a*, one-fourth of an inch; width of *a*, one and one-eighth inches, slop-

ing up at its base into the thick part *b b'*, which is three and fifteen-sixteenths inches wide, and one half of an inch thick. These dimensions are varied somewhat in different patterns of bars, preserving, however, the reduced edges *a* for guard attachments, a thickened body of proper width for strength, stiffness, and oblique cutting, and about the relative proportions above given.

The object of the thin edges *a* is to enable the guards, and of course the sickles or cutters, to be set nearer to the ground, so as to cut lower and gather a greater harvest, while the thickened part *b b'* gives the strength desired for two bars, and the oblique cut enables me to divide the blank without waste.

I claim herein as my invention—

A bar of which to construct finger-bars, having thin edges *a* and thick part *b b'*, proportioned substantially as described, for a low attachment of guards, and an oblique cut of the body for severing the same without waste, into two bars.

In testimony whereof I have hereunto set my hand.

JAMES S. ATKINSON.

Witnesses:

J. J. McCORMICK,  
GEORGE H. CHRISTY.