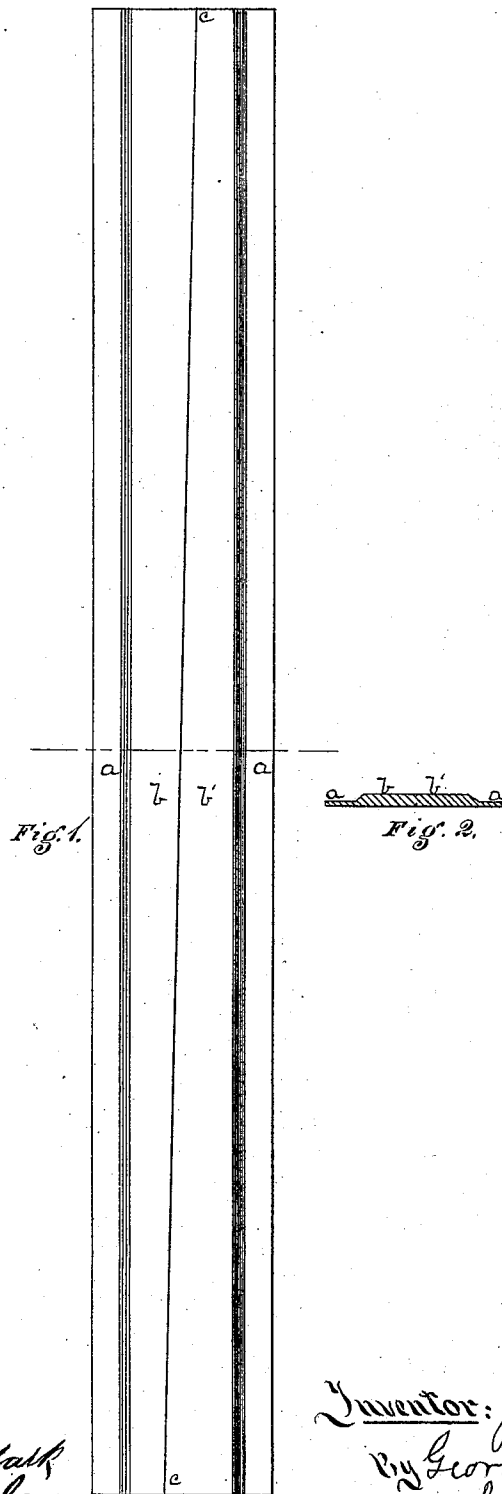


J. S. ATKINSON.

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.