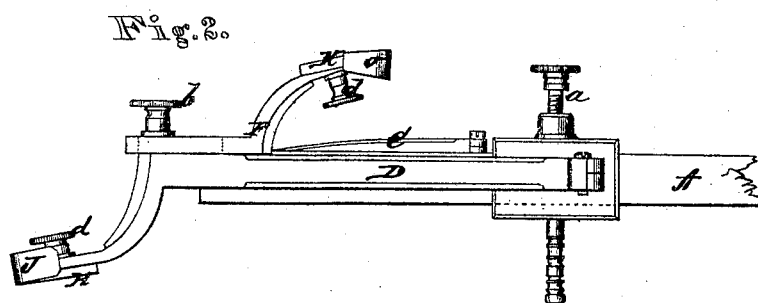
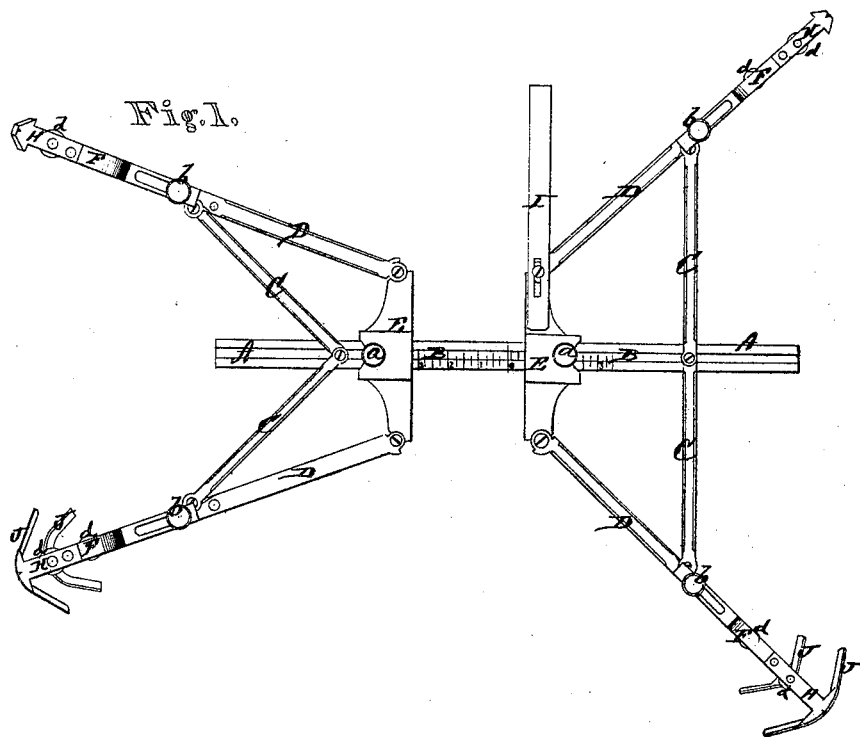


*J. H. Williams,*

*Gage.*

*No. 111,892.*

*Patented Feb. 14, 1871.*



*Witnesses.*

*Chas. Kenyon*  
*Villette Anderson.*

*Inventor.*

*J. H. Williams*  
*Chipman & Co.*  
*attys*

# United States Patent Office.

JOHN H. WILLIAMS, OF PLEASANT HILL, OHIO.

Letters Patent No. 111,892, dated February 14, 1871.

## IMPROVEMENT IN GAUGES FOR THE CONSTRUCTION OF SEAT-CUSHIONS.

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, JOHN H. WILLIAMS, of Pleasant Hill, in the county of Miami and State of Ohio, have invented a new and valuable Improvement in Cushions; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my machine in plan view; and

Figure 2 is an enlarged side view of one end thereof.

The nature of my invention consists in the construction and arrangement of a device for measuring carriage or buggy-seats, so as to cut, form, and make cushions for the same.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing.

A represents the lengthening-bar, which serves to give length to the cushion.

This bar is grooved longitudinally on one or both sides for the reception of sliding bars, B B, which govern the working of the spreading-irons C C, to give width to the cushion, two of these irons being pivoted at the outer end of each sliding bar.

The bar A passes through two sliding gauges, E E, said gauges being secured at any length or width by means of thumb-screws, *a a*. These thumb-screws at the same time secure the sliding bars B B in place.

On each side of each gauge E is pivoted or hinged an arm, D, the outer end of which is turned downward and then continues for a short distance in the same direction as the main portion of the arm.

Each of the spreading-irons C is hinged or pivoted to the corresponding arm D, at the outer end of the same, before it commences to curve downward, as just mentioned.

In the arms D D, at the outer ends, before they

commence to curve, are one or more screw-holes to receive thumb-screws, *b b*, which fasten beveling-irons F F. These irons are curved upward in the same proportion as the ends of the arms are curved downward, and are pivoted, by means of the thumb-screws *b b*, to the arms, to secure any desired shape, square or beveling. They are slotted in their inner ends so that they may be lengthened and shortened at will.

The outer ends of the tapering irons F F, as well as the extreme outer ends of the arms D D, are slotted to receive the thumb-screws *d d*, which pivot and secure tapering irons H H, at the outer ends of which are secured soft-metal pieces, J J, to take the impression of a concave or any other shape required. These metal pieces are intended to be secured by screws.

I is a slotted iron to get the shape where a seat is made beveling in the front or back, said irons being secured by screw-bolts to the sliding gauges E.

The arms D D are so shaped at each end or corner as to take about one-half the thickness of the cushion, while the beveling-irons F F take the other half.

This machine is also so constructed as to make half a cushion by flaring one end and squaring the other.

Having thus fully described my invention,

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

1. The combination of the grooved bar A with the sliding bars B B, slides E E, pivoted arms D D, spreading-arms C C, adjustable beveling-guides F F, and soft-metal corners J J, when constructed substantially as and for the purpose specified.

2. In combination with the elements of the above claim, the adjustable arm I, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN H. WILLIAMS.

Witnesses:

NATHANIEL HILL,

SIDNEY G. S. BARTON.