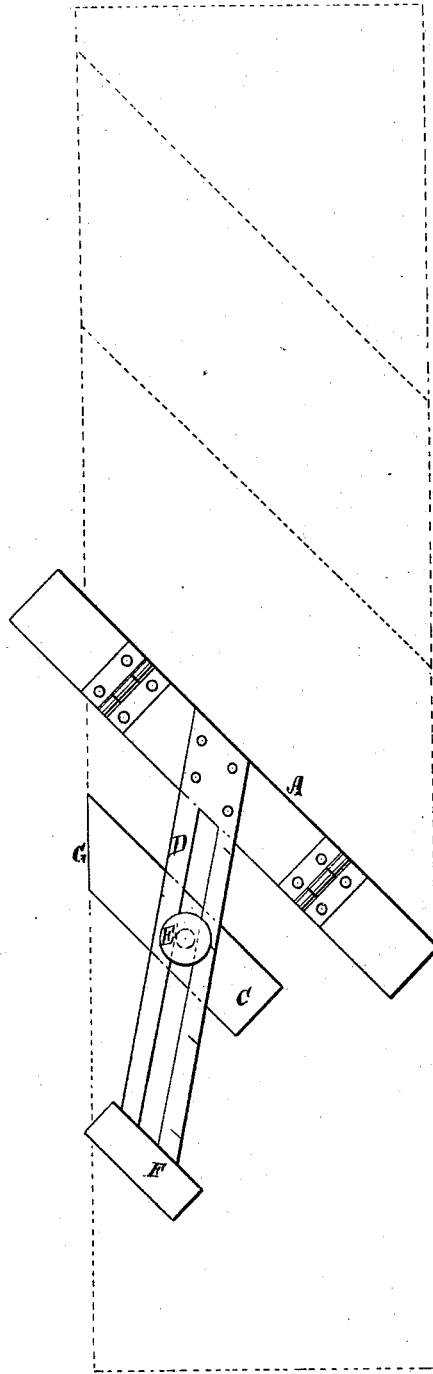


J. A. HAMILTON.

Bias-Gage.

No. 165,999.

Patented July 27, 1875.



WITNESSES:

*A. Benneisen*  
*A. F. Terry*

INVENTOR:

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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN A. HAMILTON, OF CHIPPEWA FALLS, WISCONSIN.

## IMPROVEMENT IN BIAS-GAGES.

Specification forming part of Letters Patent No. **165,999**, dated July 27, 1875; application filed January 30, 1875.

*To all whom it may concern:*

Be it known that I, JOHN A. HAMILTON, of Chippewa Falls, in the county of Chippewa and State of Wisconsin, have invented a new and Improved Bias-Trimming Gage, of which the following is a specification:

My invention consists of a marking and cutting rule, to which is attached another rule or gage parallel to it, so as to be shifted toward and from it, and having one end beveled, so that when placed parallel with the edge of the goods to be cut into bias strips it will gage the principal rule to the proper bias for cutting the cloth. The width of the strips is gaged by the distance of one rule from another.

The drawing is a plan view of my improved bias-trimming gage, and a diagram of a strip of cloth, showing the manner of using it.

A is the principal marking or cutting rule; C, the bias and width-gaging rule; D, the connecting-plate; E, clamp-screw, and F a block for a rest to the free end of the connecting-plate. The end G of rule C is beveled, so as to gage the rule A to the proper bias when it is arranged parallel with the edge of the cloth, as shown in the drawing. The plate D has a scale by which to adjust the rules for marking the width of the strips to be cut. Rule A is jointed each side of the plate D, to fold up short; but it is not essential.

For special widths of trimming it is not

necessary that the rules be adjustable toward and from each other; but by means of it one gage will be available for all required widths.

Thus it will be seen that my device consists of a rule, guide, and scale, the first serving the purpose of a straight-edge, the second governing the distance between lines, and the third being marked off in bias and linear inches.

The guide or back rule is slid to the figure corresponding to the number of inches wanted in the width of trimming, and fastened with clamp that sets gage. This guide consists of a straight piece of wood beveled to a true bias.

Having set gage, so place it on paper that the beveled end of guide will be parallel with its edge, and the rule will then be arranged diagonally across paper, making a true bias, which is the object of my invention.

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

As an article of manufacture, a bias-trimming gage consisting of double-jointed piece A, end-beveled piece C G, slotted piece D, clamp E, and block F, all constructed and arranged as shown and described.

JOHN A. HAMILTON.

Witnesses:

F. A. RECKARD, M. D.,  
Z. C. RECKARD.