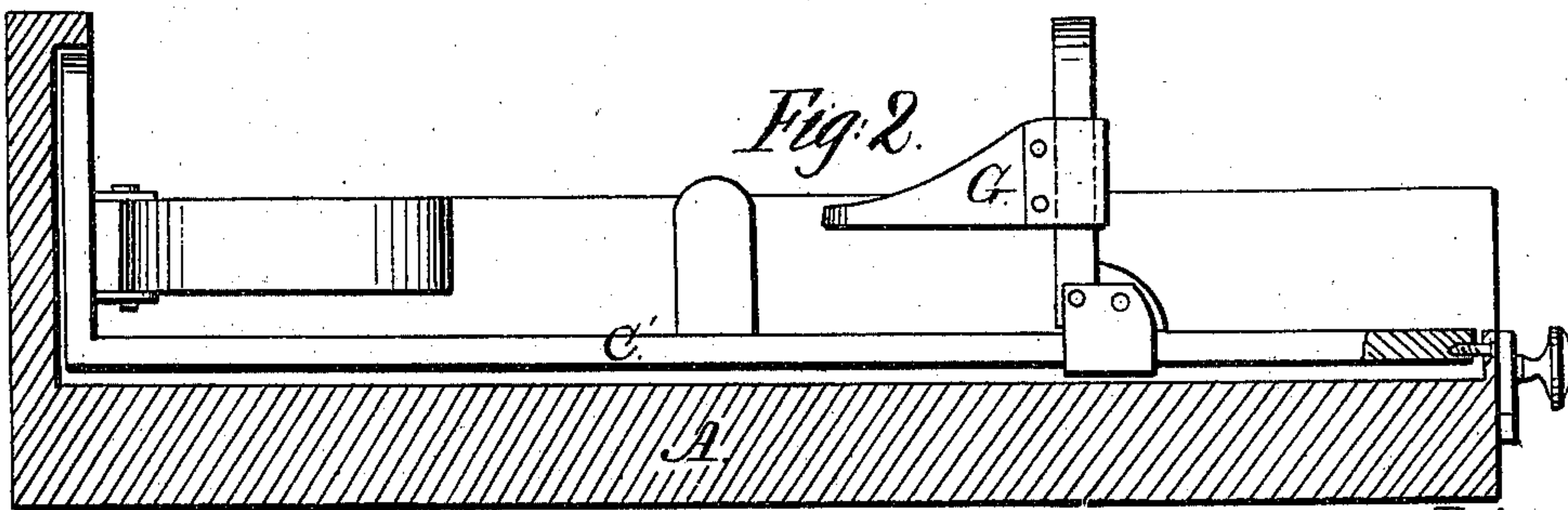
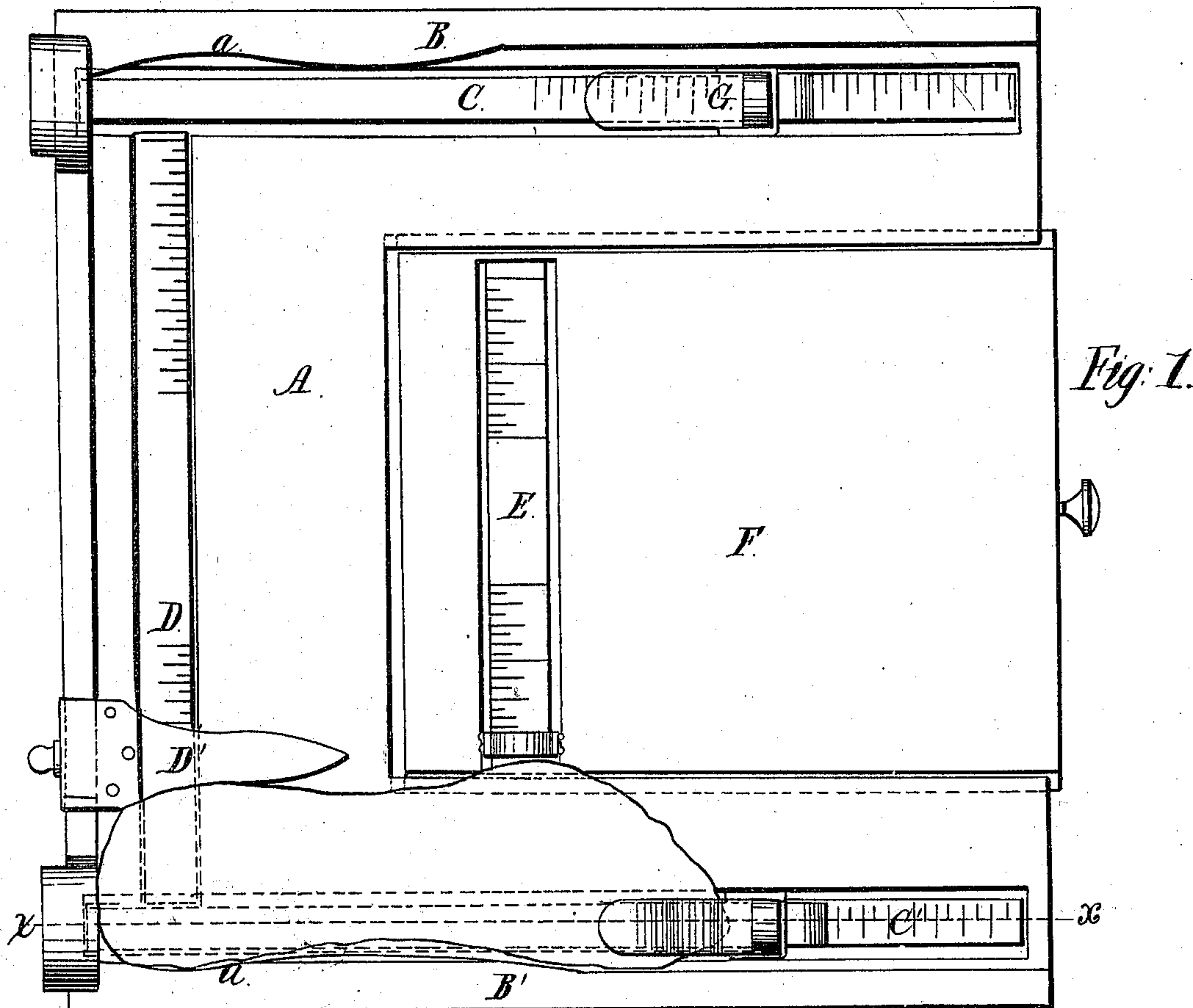


*C. Cross.*

*Foot Measure.*

*N<sup>o</sup> 89,919.*

*Patented May 11, 1869.*



Witnesses: *Jm A Morgan*  
*G C Cotton*

Inventor:  
*Chas. Cross*  
*per Mumf. Attorneys.*



# United States Patent Office.

CHARLES CROSS, OF LOUISVILLE, KENTUCKY.

*Letters Patent No. 89,919, dated May 11, 1869.*

## IMPROVEMENT IN FOOT-MEASURE FOR SHOEMAKERS.

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, CHARLES CROSS, of Louisville, in the county of Jefferson, and State of Kentucky, have invented a new and improved Foot-Measure for Shoemakers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The object of this invention is to provide a more convenient and useful measure for shoemakers' use than any now in use.

It consists of the arrangement, upon a suitable bed-piece, of measures adapted to take the length of the feet, breadth at the heels, at the widest part of the foot, and the thickness of the great toe, both for right and left feet, adjustable to all sizes, the measures which come under the feet being inlaid in the said bed, so that the feet set firmly on the said bed-piece when being measured.

Figure 1 represents a plan view of my improved apparatus; and

Figure 2 represents a section of the same, taken on the line *x x* of fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the bed-piece, which is provided with the side walls B and B', the interior faces of which are curved, as shown at *a*, to fit, as near as may be, the inner sides of the feet near the heels.

C and C' represent the measures for taking the length of the feet, which are of construction similar to those in ordinary use, but which are, according to my improvement, inlaid in the bed A.

D and E represent the measures for taking the

breadth of the feet, and are provided with the slides D' and E'.

They are so arranged as to take the measure for both feet, the slides moving from one side to the other.

The scale F is arranged in a sliding part F' of the bed, to be adjusted as required for feet of different lengths, and both are inlaid in the bed.

The measures C and C' are provided with vertical scales and slides G G', for taking the vertical measurement of the great toes.

In taking the measurements, the right foot is placed on the left side, and the left foot on the right side of the apparatus.

By this arrangement of measures, the operation of measuring is made more easy and accurate, the feet being in a more natural position, and, as they rest on the bed-piece, and not on the measures, the slides may be moved with greater facility.

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

1. The combination, with the bed-piece A, provided with the side walls B and B', of the measures C and C', when inlaid in the same, substantially as and for the purpose described.

2. The combination, with the bed A, having the side walls B and B', of the inlaid measures D and E, substantially as and for the purpose described.

3. The slide E, arranged in the adjustable part F of the bed, substantially as and for the purpose described.

4. The combination, with the inlaid measures C and C', of the toe-gauges G, substantially as and for the purpose described.

Witnesses:

B. A. CULLEN,  
JAS. T. CURTIS.

CHARLES CROSS.