

F. H. WHITE.
Bias-Rule.

No. 217,967.

Patented July 29, 1879.

Fig. 1.

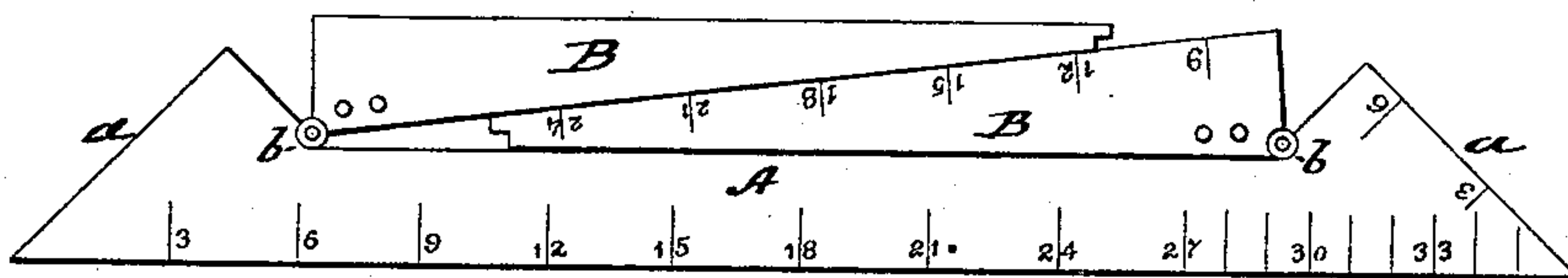
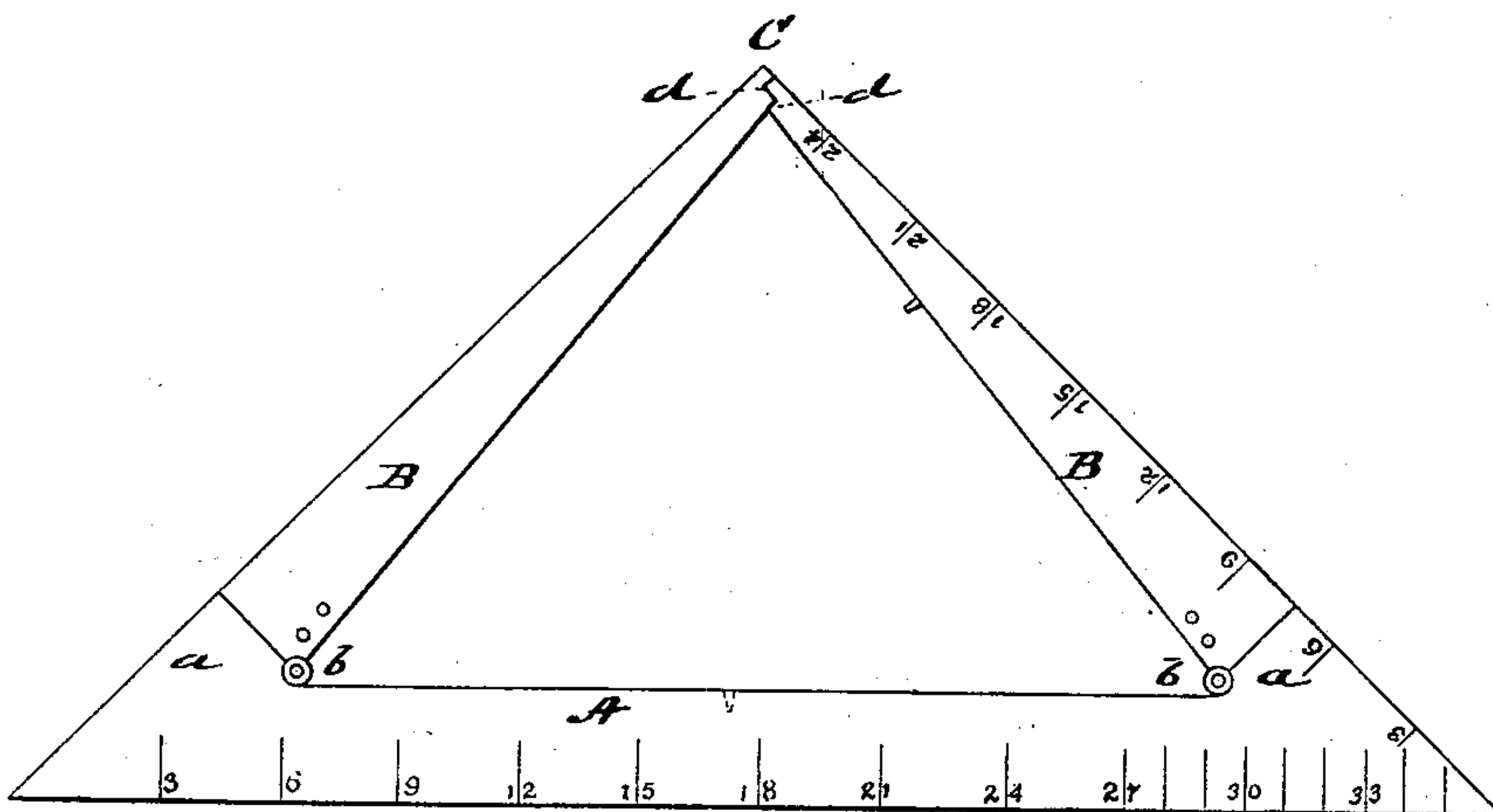


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

FREDERICK H. WHITE, OF MINNEAPOLIS, MINNESOTA.

IMPROVEMENT IN BIAS-RULES.

Specification forming part of Letters Patent No. **217,967**, dated July 29, 1879; application filed January 3, 1879.

To all whom it may concern:

Be it known that I, FREDERICK H. WHITE, of Minneapolis, Minnesota, have invented a new and useful Improvement in Bias-Rules for merchants and others, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents my improved rule folded up. Fig. 2 represents it in position for use.

To enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

My invention relates to that class of rules used by merchants and shop-keepers for the purpose of enabling them to cut silks and other goods on the bias; and it consists in the construction and combination of the parts hereinafter described and claimed.

In the drawings, A represents the base or hypotenuse of my improved rule, provided with the usual scale of measurement. On each end of the base A is formed an inclined shoulder, *a*, forming an angle of forty-five degrees at each point

Hinged to the base A, at *b b*, are the arms

B B, which fold down when not in use, as shown in Fig. 1, and when in use are unfolded, as shown in Fig. 2, the two arms forming a right angle at their point of juncture C, and being supported in that position by the shoulders *d d*. One or both of the arms B B may be provided with the usual scale for measurement.

It is evident from the above description that any merchant's yard-stick may be so constructed as to be readily converted into a bias-rule when needed, and be again folded into a convenient yard-stick when not needed as a bias-rule.

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

A bias-rule constructed as described, and consisting of the base A, provided with the inclined shoulders *a*, in combination with the hinged arms B B, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand.

FREDERICK HOPPER WHITE.

Witnesses:

CHARLES M. POND,
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