

(No Model.)

D. J. SESSOMS.

COMBINED HOWEL AND GROZE.

Patented Nov. 14, 1882.

No. 267,601.

fig. 1.

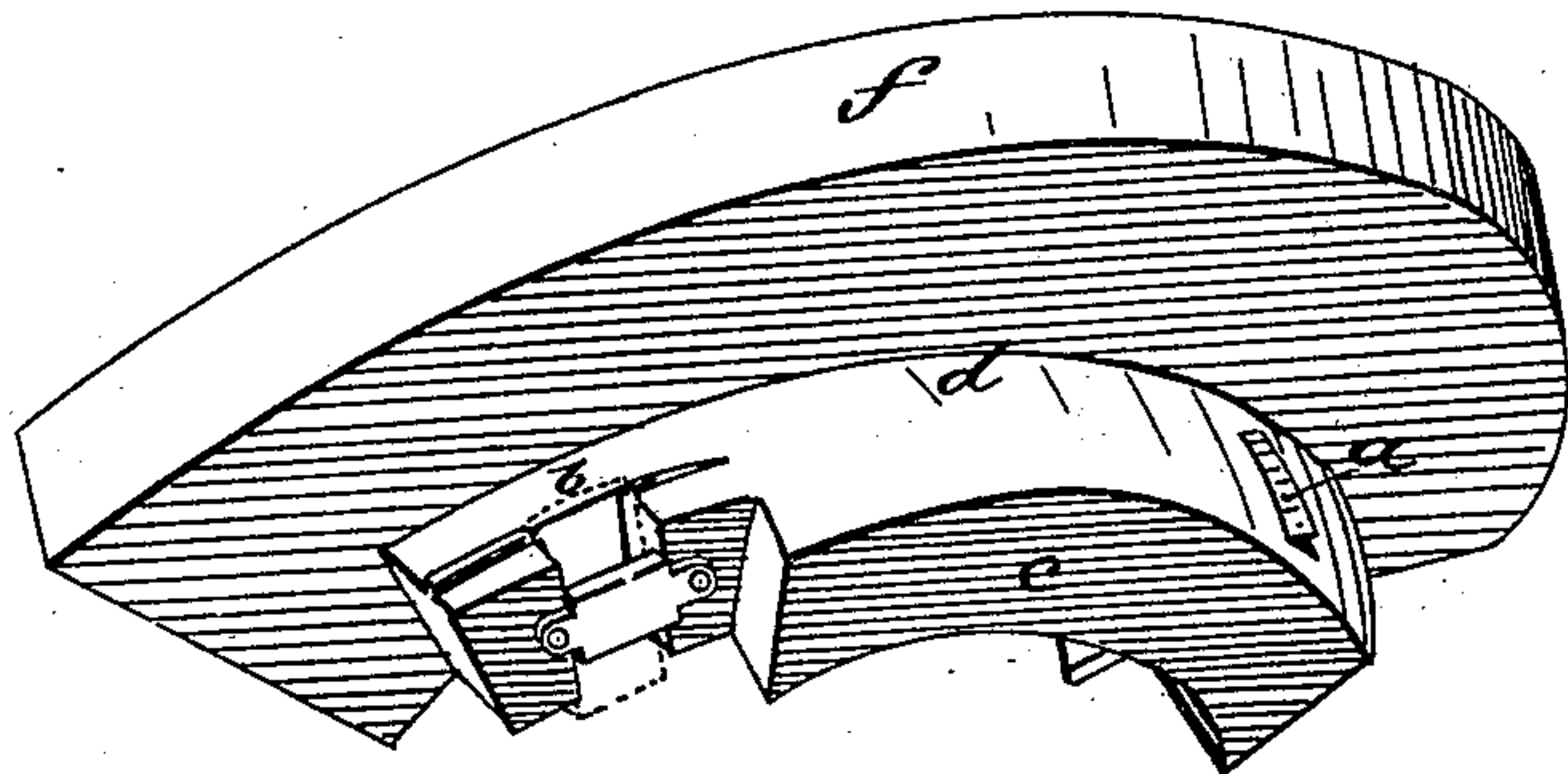


fig. 2.

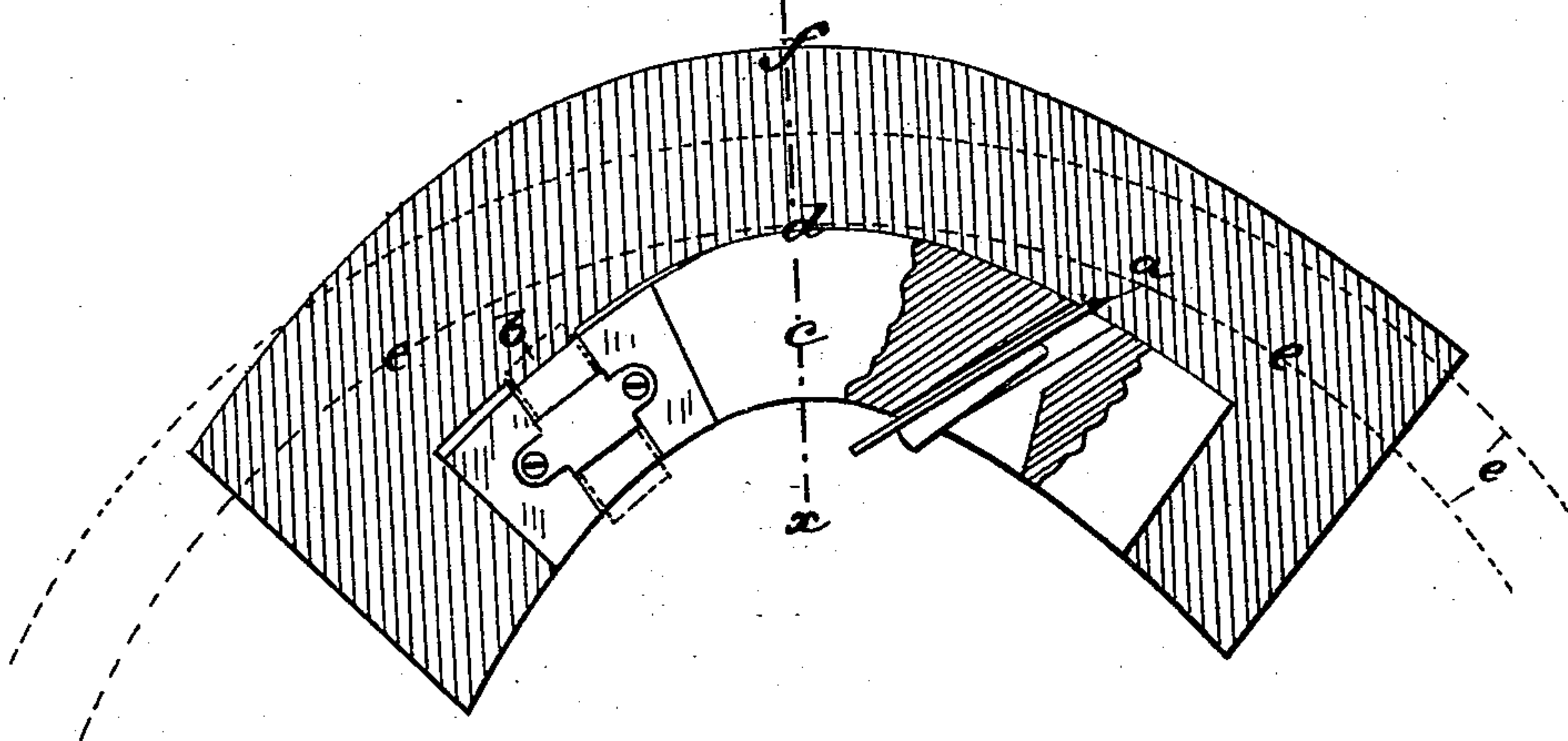
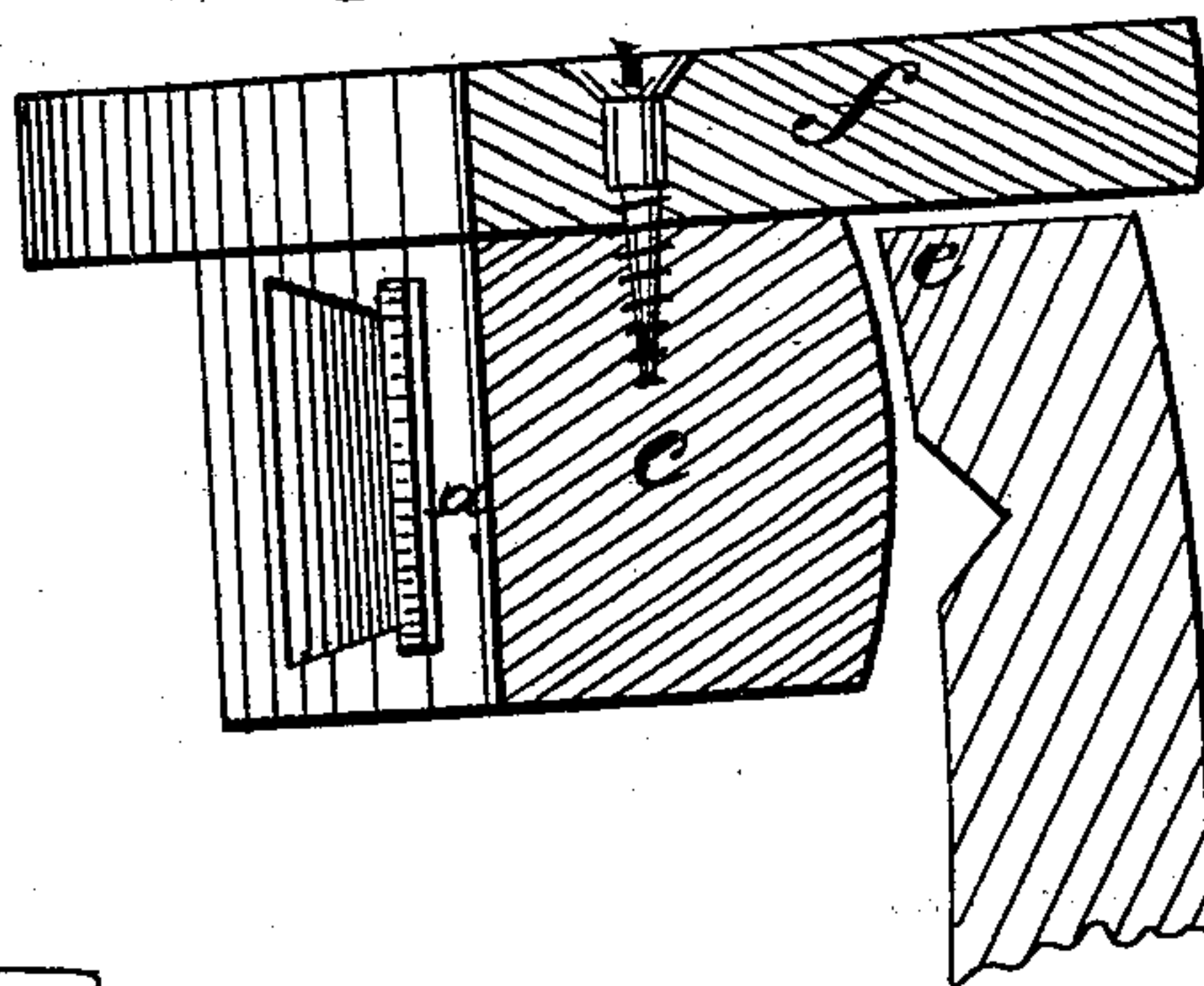


fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DAVID J. SESSOMS, OF BLOCKER'S, NORTH CAROLINA.

COMBINED HOWEL AND CROZE.

SPECIFICATION forming part of Letters Patent No. 267,601, dated November 14, 1882.

Application filed August 21, 1882. (No model.)

To all whom it may concern:

Be it known that I, DAVID J. SESSOMS, of Blocker's, in the county of Cumberland and State of North Carolina, have invented a new
5 and Improved Combined Howel and Croze, of which the following is a full, clear, and exact description.

My invention consists of the howel and croze for coopers' use mounted on one stock, so that
10 after the howel is formed the croze can be made without loss of time in changing tools, the arrangement being such that neither one will act when the other is at work, all as hereinafter fully described.

15 Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my improved
20 combined howel and croze. Fig. 2 is a plan view of the same inverted, with a part of the stock in section and with an end view of a portion of a barrel. Fig. 3 is a section on the line
xx of Fig. 2.

25 a is the howel-plane for smoothing the staves inside preparatory to making the croze by the crozing-plane b. I propose to mount these on the same stock, c, locating the howel-plane near the front end of the stock and the croze-plane
30 near the rear end; and in order that the howel-plane may be used first and without the croze taking effect on the staves, I crook the stock at

or about the point d, between said planes, so that when one touches the circle e for doing its work the other will be clear of it, thereby ena- 35
bling me to work either one alone by suitably placing the hand on the stock—that is to say, when I want to howel the cask I take the tool in hand at the howel end, or thereabout, and when I want to croze it I take the tool at the
40 croze end, or thereabout.

The shape of my stock is distinguished from the ordinary howel-plane stocks and croze-plane stocks in being a little longer and having a greater crook or curvature between where the
45 two tools are located than the curvature of the said stocks, and also greater than in the parts of my stock where the tools are attached. The gage part f of the stock will be substantially
50 the same as in other tools.

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

The howel-plane a and the croze-plane b, mounted on one and the same stock, c, and said
55 stock c having a crook or curve at d, or thereabout, greater than in the end portions where the said planes are located, substantially as described.

DAVID J. SESSOMS.

Witnesses:

R. McMILLAN,
FRANK GLOVER.