

No. 773,731.

PATENTED NOV. 1, 1904.

W. E. GOULD.

DEVICE FOR CLAMPING TOGETHER SHOW CASE OR OTHER GLASS.

APPLICATION FILED JAN. 14, 1904.

NO MODEL.

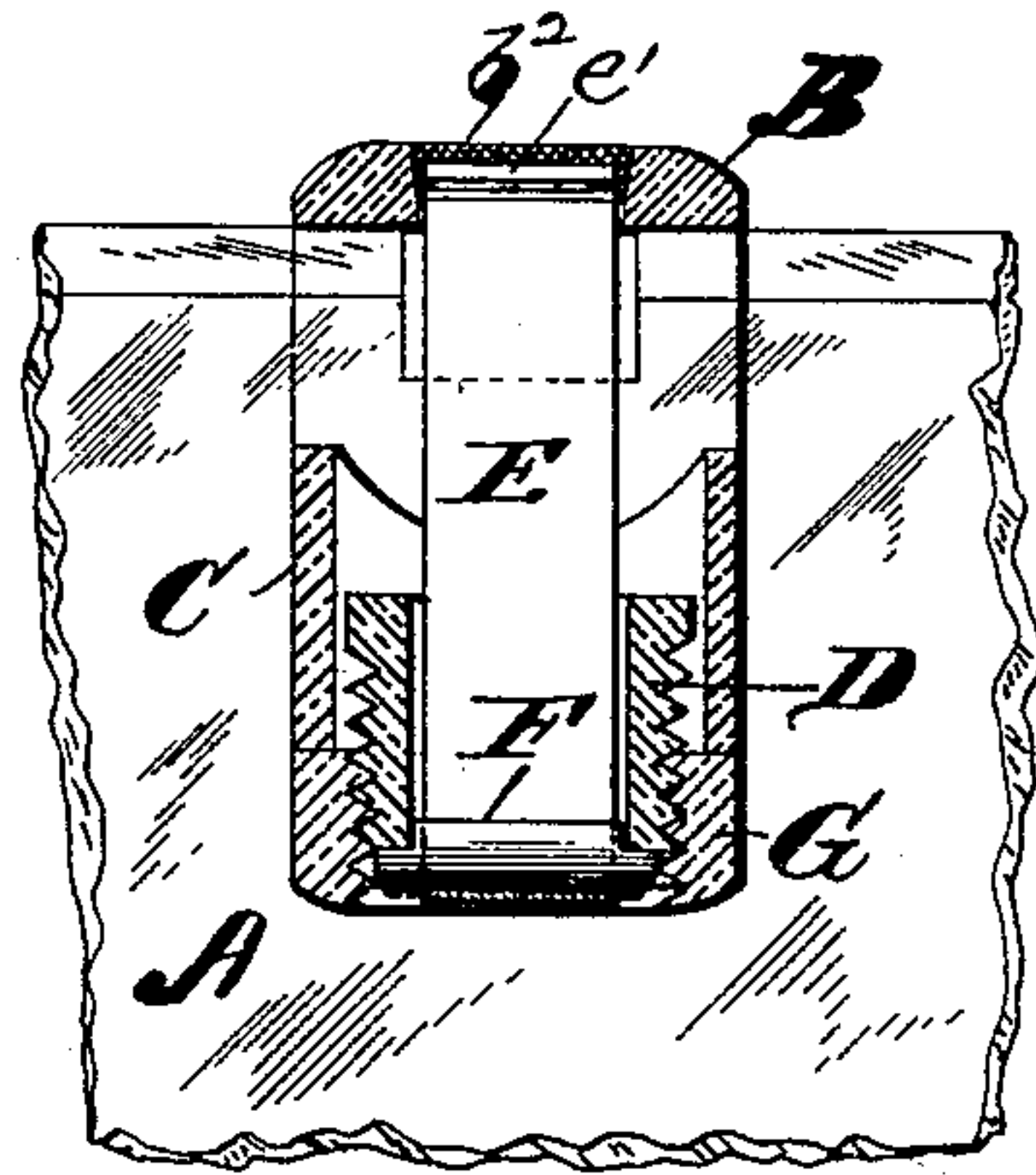
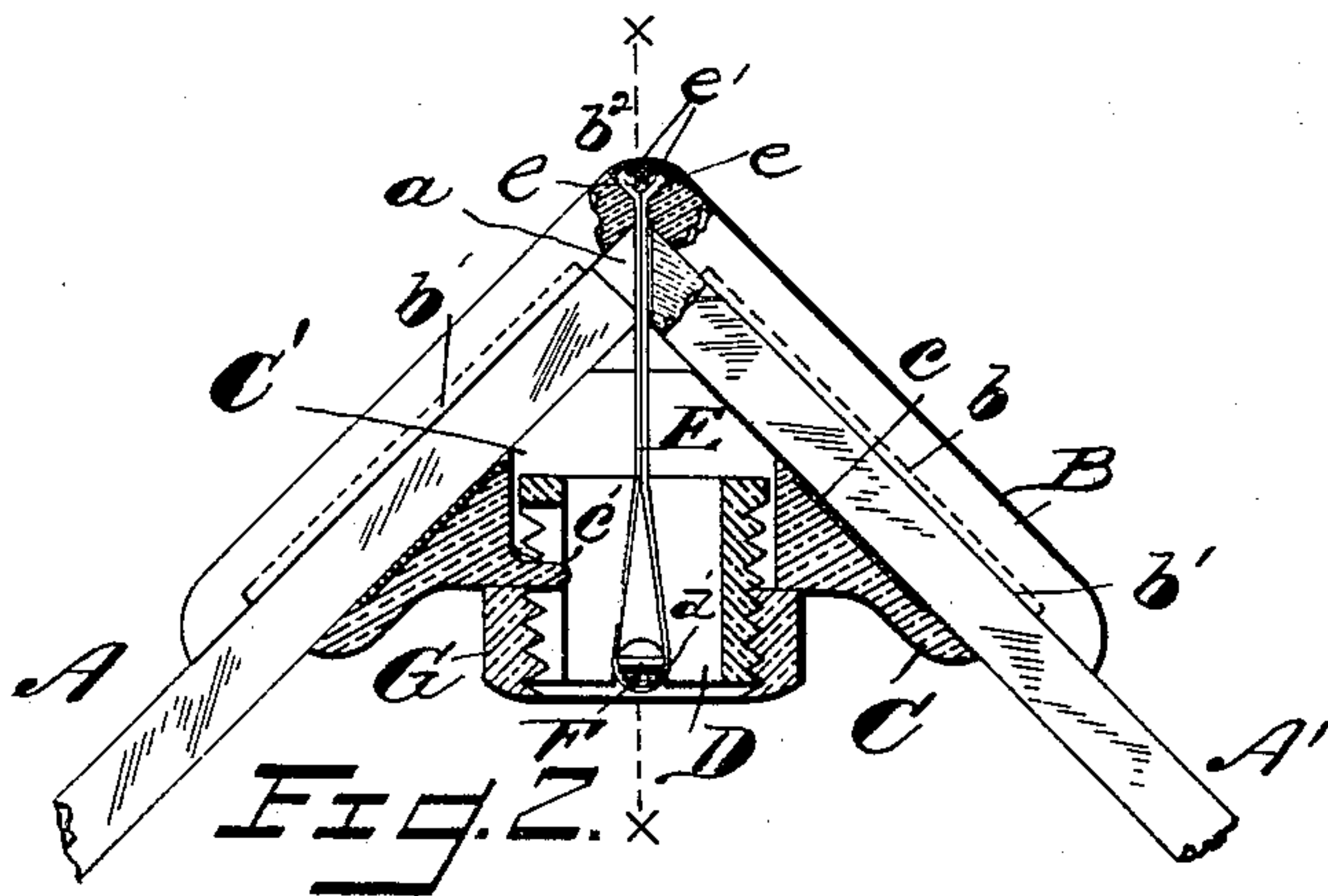
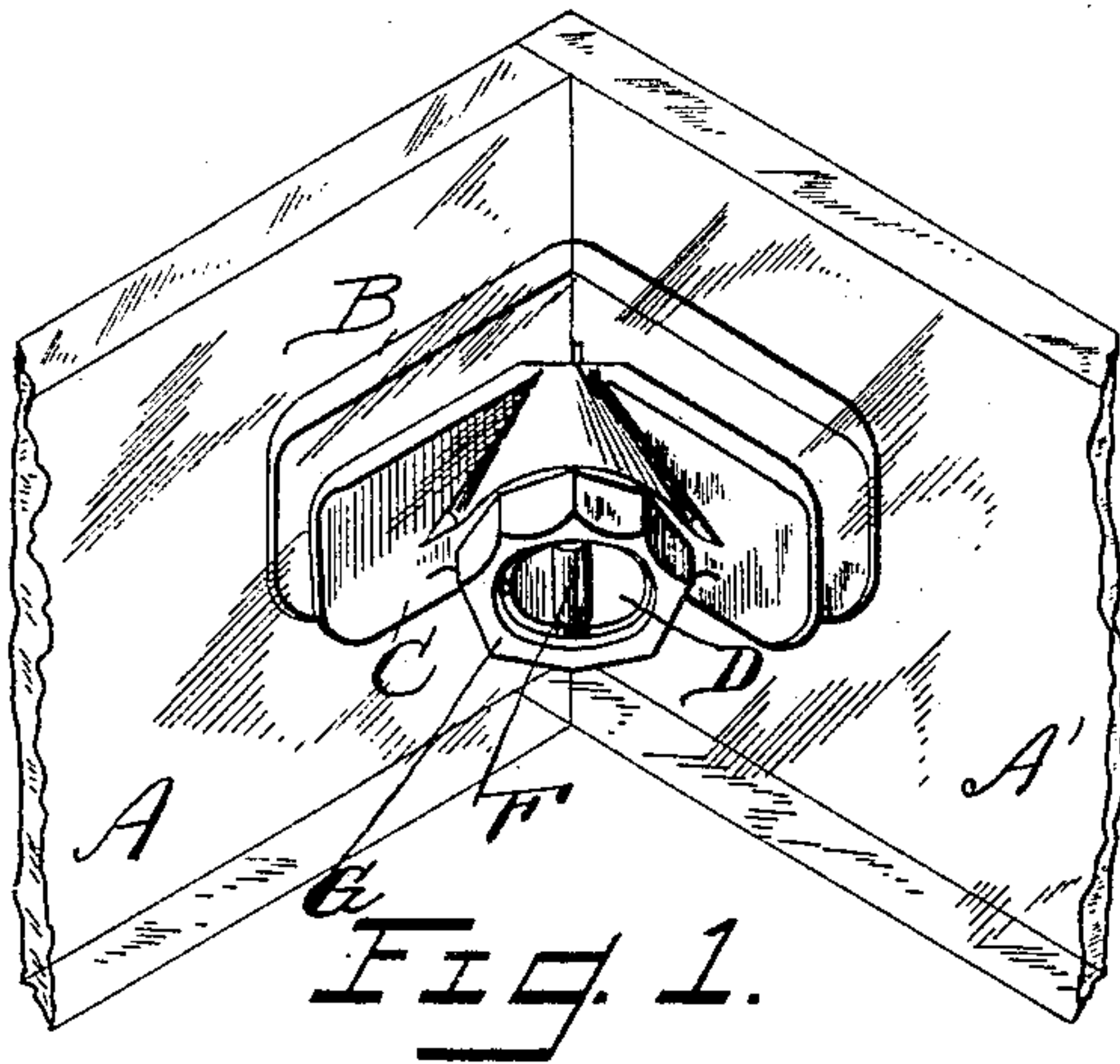


Fig. 3.

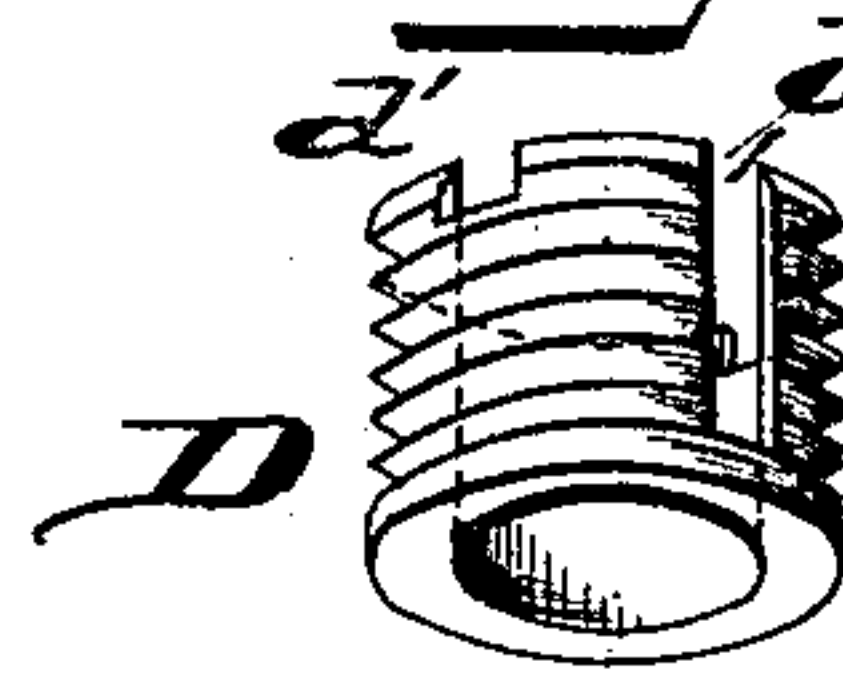


Fig. 5.

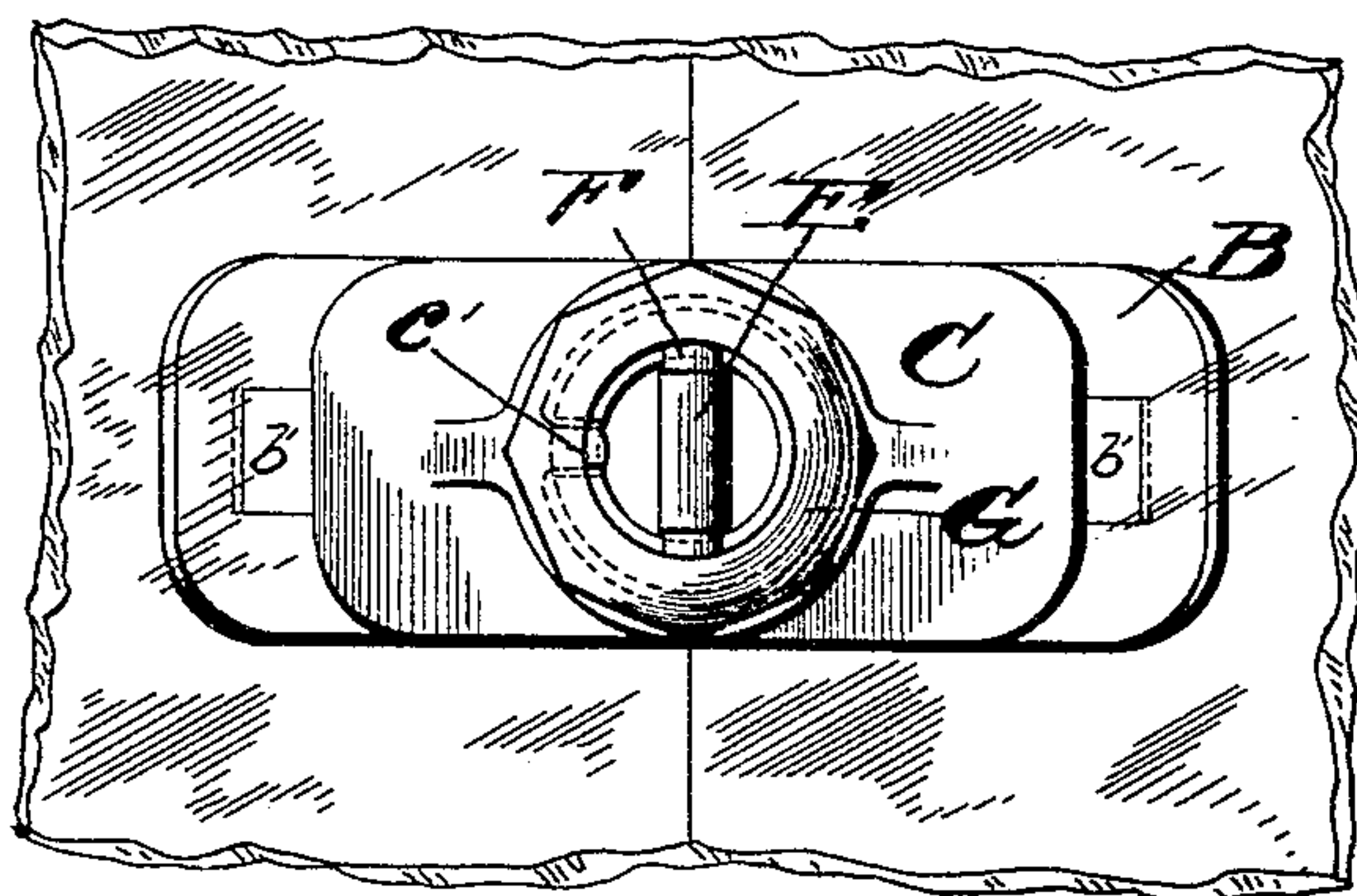


Fig. 4.

WITNESSES

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INVENTOR

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ATTORNEYS



# UNITED STATES PATENT OFFICE.

WALTER E. GOULD, OF DETROIT, MICHIGAN, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, OF TWO-THIRDS TO HERBERT M. KIPP AND EDWARD FROHLICH, OF DETROIT, MICHIGAN.

## DEVICE FOR CLAMPING TOGETHER SHOW-CASE OR OTHER GLASS.

SPECIFICATION forming part of Letters Patent No. 773,731, dated November 1, 1904.

Application filed January 14, 1904. Serial No. 188,960. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER E. GOULD, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Devices for Clamping Together Show-Case or other Glass; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in devices employed for clamping lights of glass together in the manufacture of show-cases, windows, &c., where it is desired to have the glass abut without employing sash or frames.

In the drawings, Figure 1 is a perspective view of the clamp in position. Fig. 2 is a section through one portion of the clamp, showing the other parts in elevation. Fig. 3 is a sectional view on line X X of Fig. 2. Fig. 4 is an elevation from the inside with the clamp in position. Fig. 5 is a detail view of one of the parts.

The object of my invention is to provide a simple and practical corner-clamp to secure lights of glass together, which will avoid the necessity of drilling holes through the glass for the passage of bolts, as is common in devices of this character.

Referring to the letters of reference shown on the drawings, A and A' represent abutting glass plates.

B is an outer angle-plate composing part of the clamp, being recessed at *b* to receive the rubber cushion or packing *b'*.

C is an inner angle-plate, also recessed to receive a rubber cushion or packing *c* and provided with a central opening *C'*.

D is an annular screw-threaded sleeve partially housed within the central opening of the plate C and provided with a keyway *d* to receive a projecting lug *c'*, preferably cast integral with the angle-plate C.

E is a ribbon of steel or other suitable metal engaging the outer angle-plate B by entering

a slot in said plate and being provided with flaring or outwardly-bent portions *e e*, each of which has a return-bend *e' e'*.

*b*<sup>2</sup> denotes solder employed to secure the ends of the ribbon to the outer corner-clamp, though the same is not absolutely necessary, as it is found in practice that the peculiar form and the return-bend of the ribbon secures the same without the assistance of any other agency.

F is a cross-pin around which the ribbon of steel E is looped. This cross-pin is set in the recesses *d'* formed in the sleeve D.

G is a nut engaging the sleeve D and bearing on the angle-plate C.

The method of applying the clamps will be readily understood. The glass is first prepared at such points as it is desired to attach the clamping device by grinding an angular slot *a* in the edge of one of the lights for the ribbon connecting the corner-plates. The outer clamp being set in position, with the ribbon E projecting through the slot in the glass, the inner clamp with its connecting parts are then placed in position and the ribbon looped around the pin, supported by the sleeve D. The nut G is then screwed down until sufficient tension is put on the clamping device to hold the glass firmly bound.

By having the lugs *c'* enter the keyway provided in the adjustable sleeve D any desired tension can be applied by means of the nut G without the possibility of twisting the metallic ribbon or band E.

Having thus described my invention, what I claim is—

1. In an article of the class described, an outer angle-plate recessed on the inside, a rubber packing set in said recess, an inner angle-iron recessed to receive a packing, a rubber packing set in said recess, a metallic ribbon secured to the outer angle-iron and to an adjustable screw-threaded portion on the inside and a nut engaging said screw-threaded portion, and bearing on the inner angle-iron, substantially as described.

2. In an article of the class described, an outer angle-iron, an inner angle-iron, a me-

tallic ribbon secured to the outer angle-iron and to a screw-threaded sleeve housed partially within an opening in the inner angle-iron, the screw-threaded sleeve, and a nut engaging said sleeve and bearing on the inner angle-iron to force the angle-irons toward each other to grip the glass, substantially as described.

3. In an article of the class described, an outer angle-iron having an opening at its corner to receive the ends of a metallic ribbon, an inner angle-iron, an adjustable sleeve, a cross-pin supported by the walls of said sleeve, a nut engaging said sleeve and bearing on the inner angle-iron, a metallic band looped around said cross-pin and having its ends, after passing through the opening in the angle-iron, provided with the flaring portion *ee* and return-bend *e' e'*, substantially as described.

4. In an article of the class described, an outer angle-iron, a relatively thin metallic ribbon projecting inwardly from its corner and engaging a screw-threaded portion, the inner angle-iron provided with a central opening and having a lug projecting into the same, the screw-threaded portion engaged by the metallic ribbon and provided with a recess to receive the projecting lug on the inner angle-iron, and a nut engaging the screw-threaded portion and bearing on the inner angle-iron, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

WALTER E. GOULD.

Witnesses:

S. E. THOMAS,  
CHAS. TIMM.