

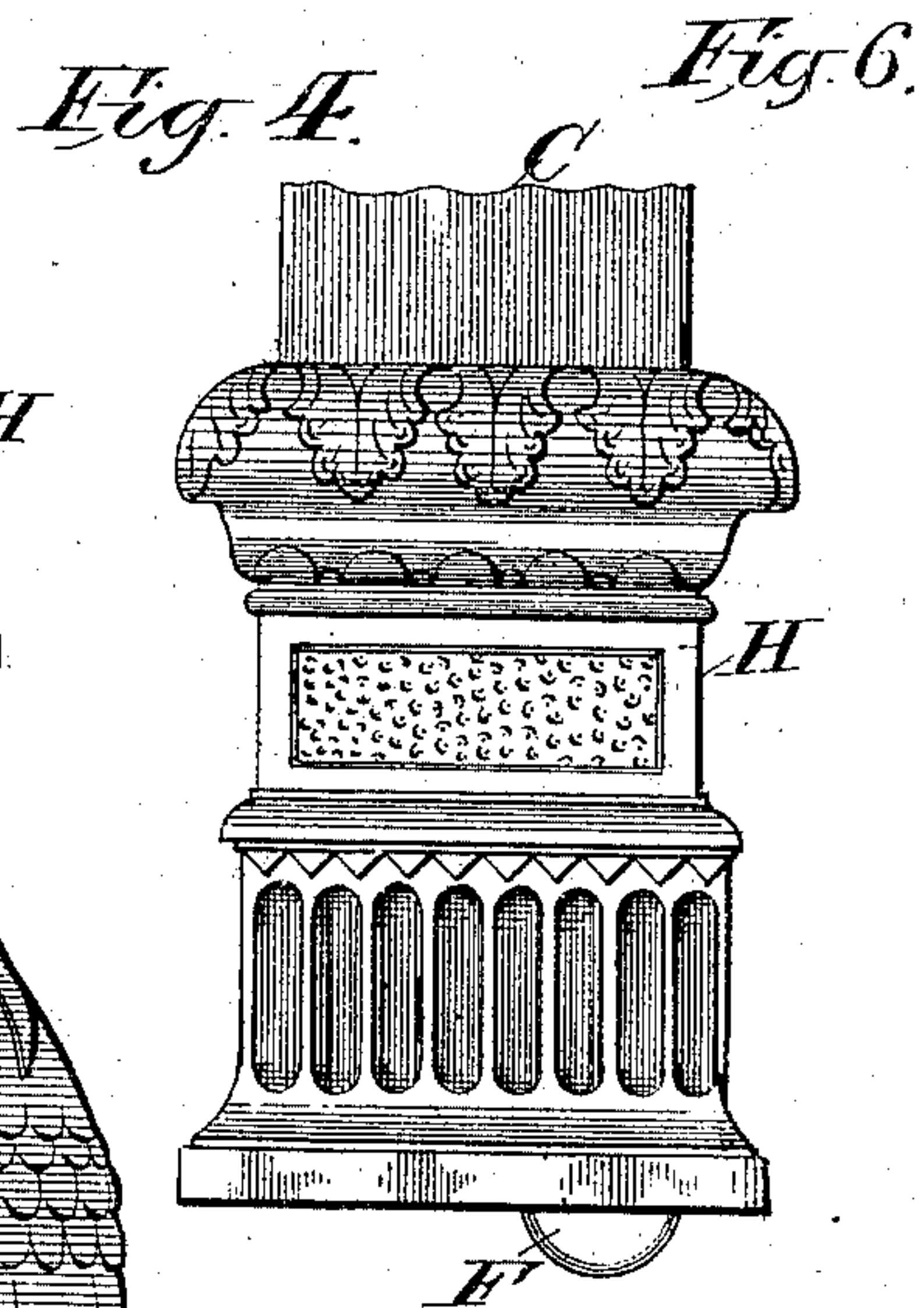
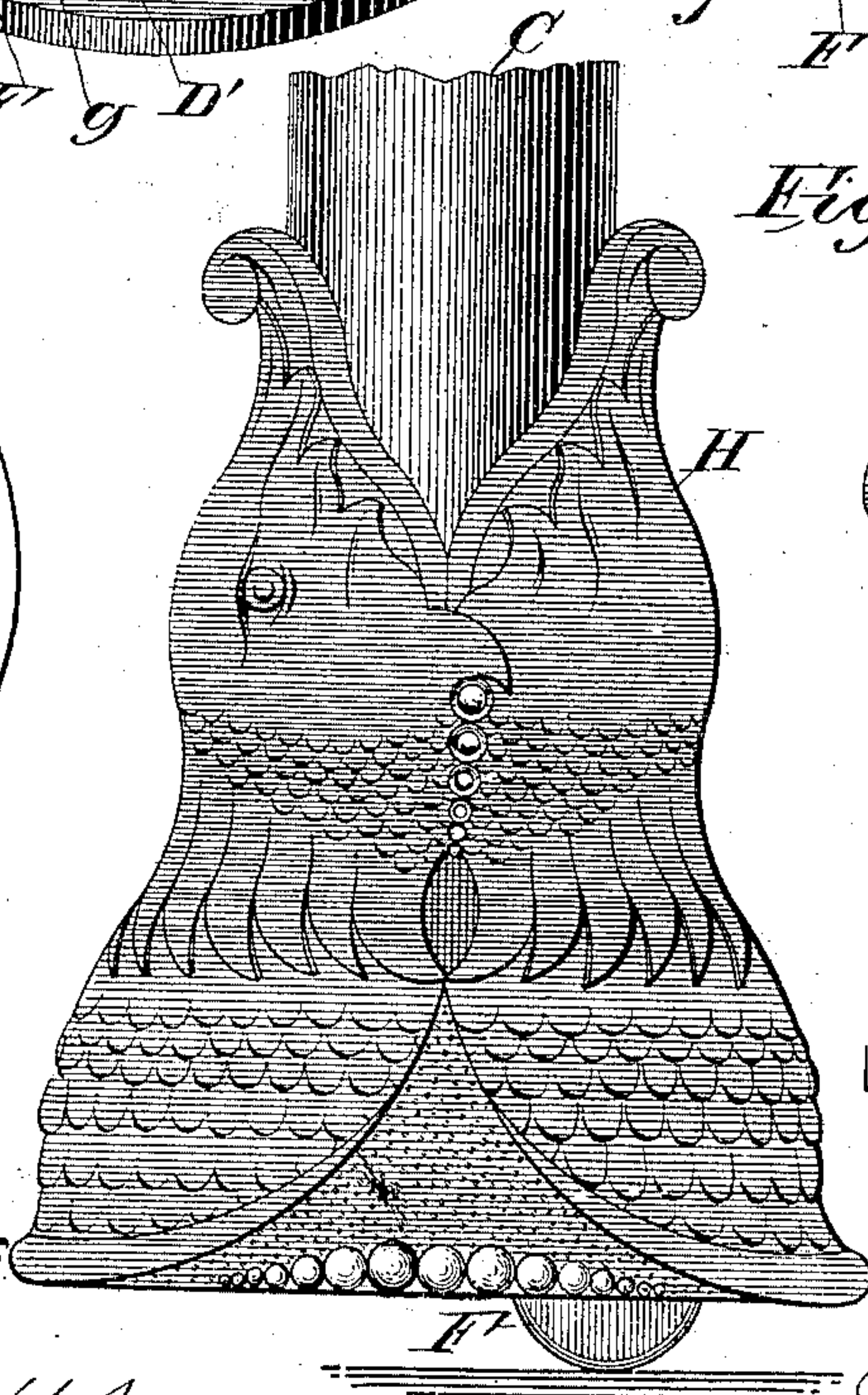
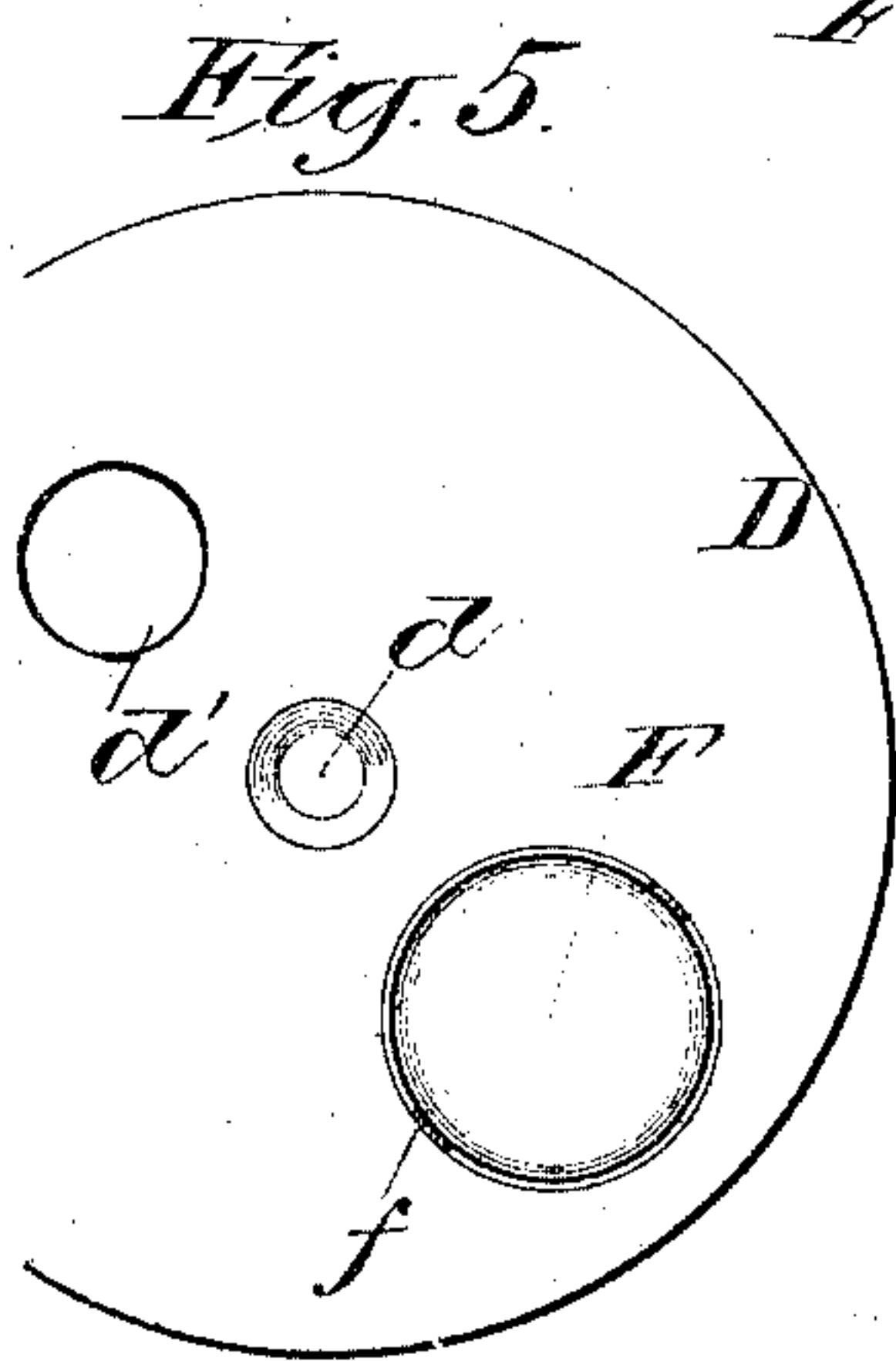
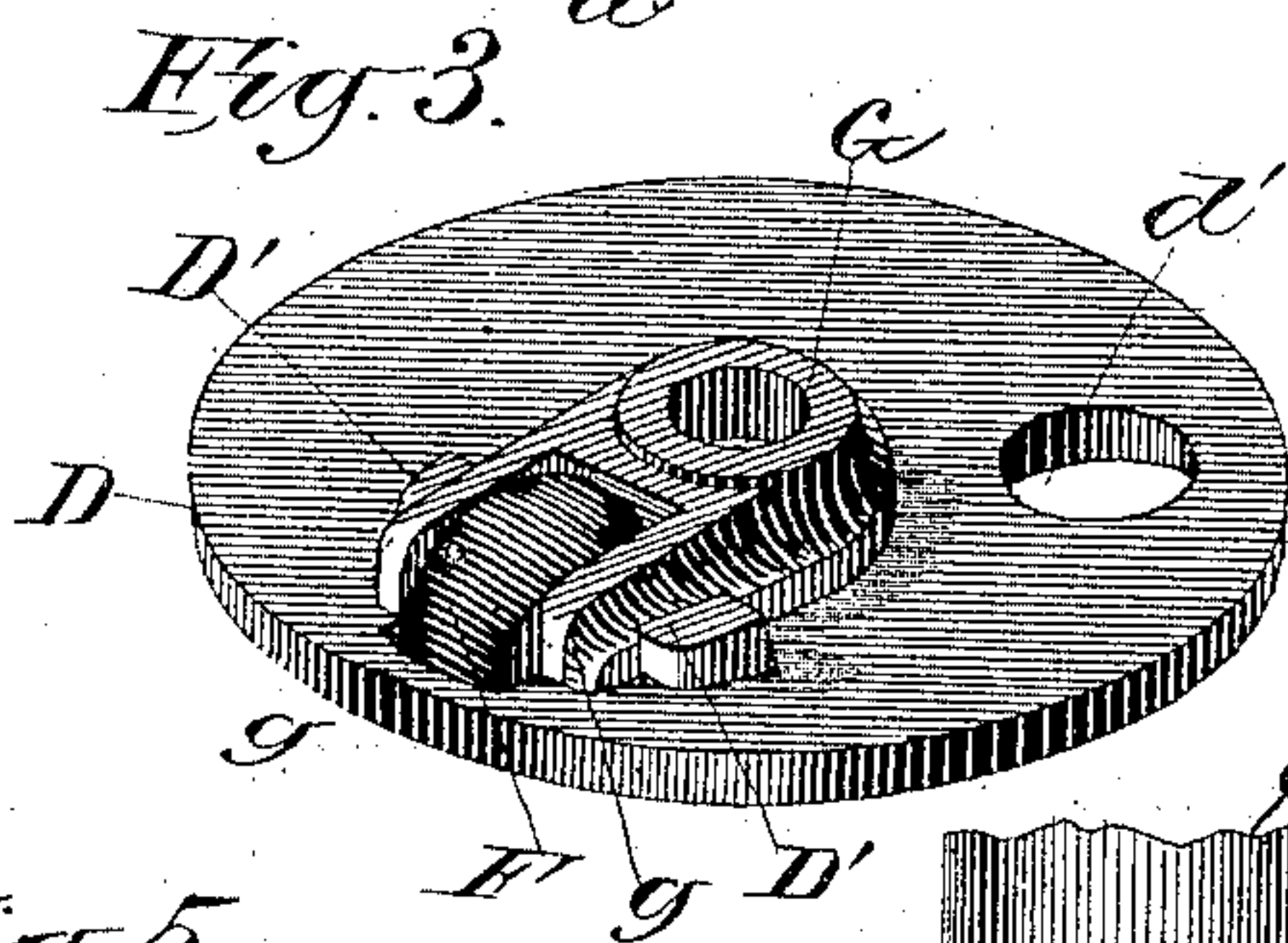
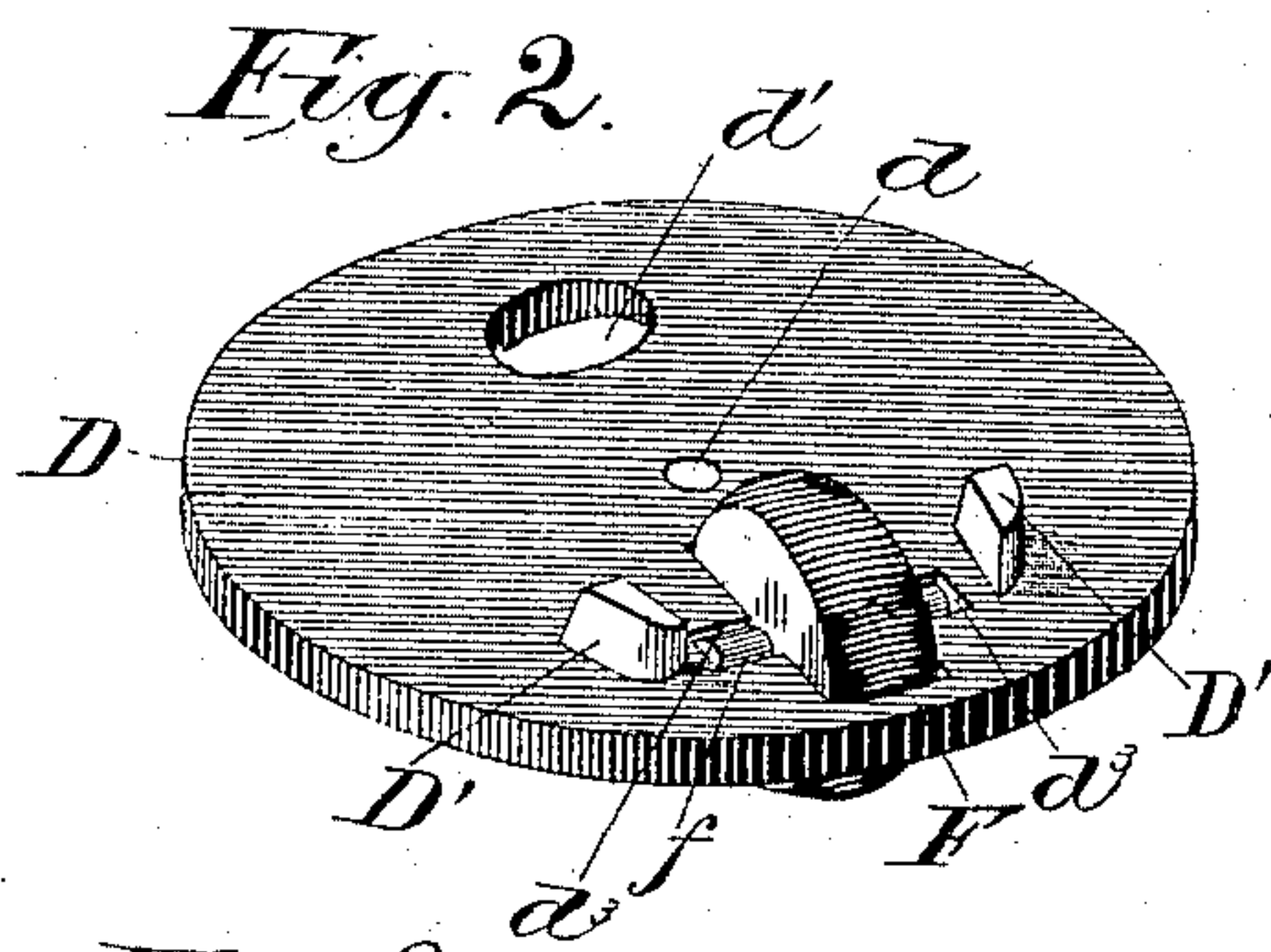
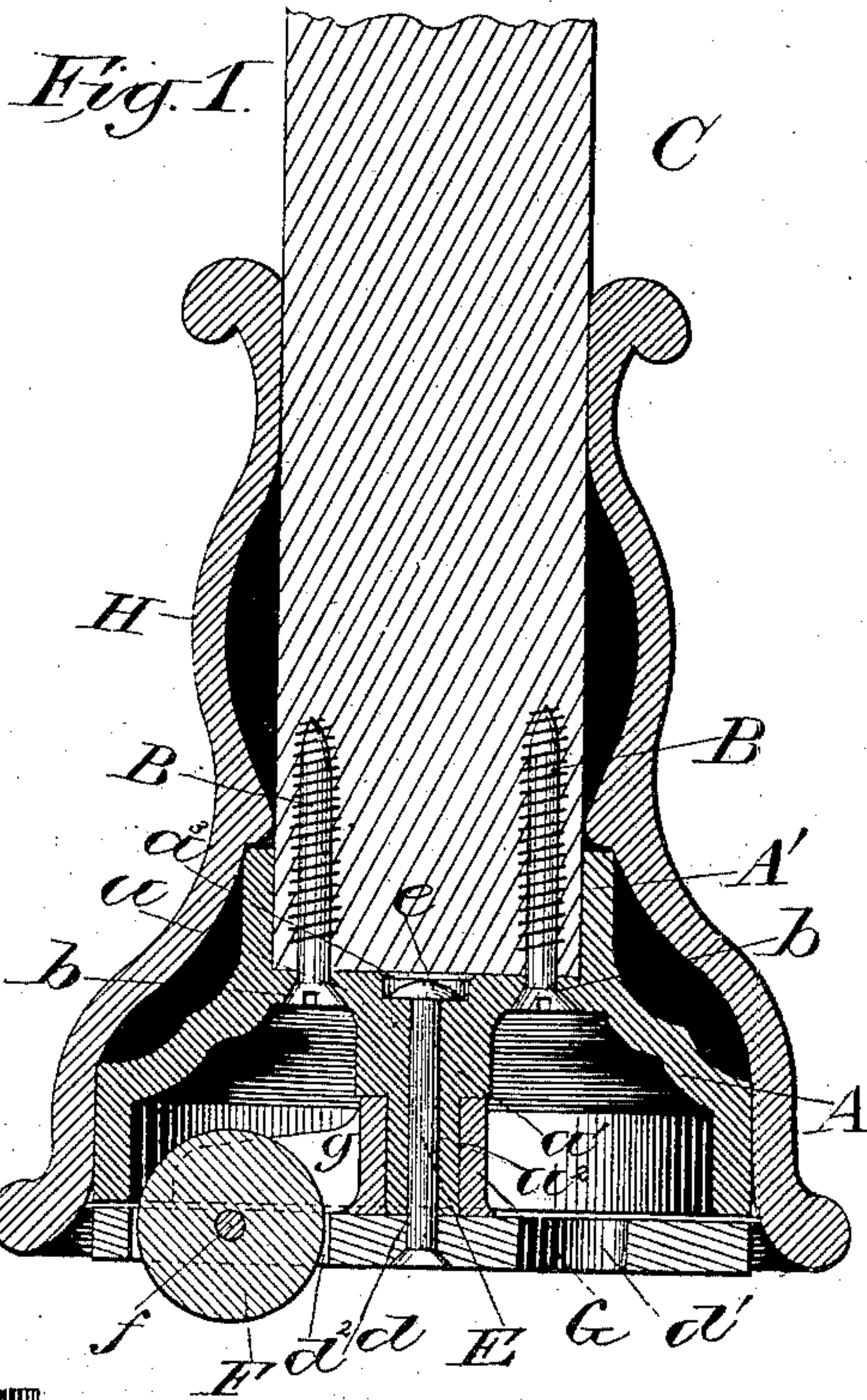
(No Model.)

S. M. MICHELSON.

CASTER.

No. 313,097.

Patented Mar. 3, 1885.



Witnesses  
E. J. Somers  
H. B. Forsythe

Inventor:  
Sigmund M. Michelson  
By J. Stout & Underwood  
Attorneys.



# UNITED STATES PATENT OFFICE.

SIGISMUND M. MICHELSON, OF MILWAUKEE, WISCONSIN, ASSIGNOR OF  
ONE-THIRD TO GEORGE SYLVESTER, OF SAME PLACE.

## CASTER.

SPECIFICATION forming part of Letters Patent No. 313,097, dated March 3, 1885.

Application filed May 27, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, SIGISMUND M. MICHELSON, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Casters; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to casters, and has especial reference to such as are used with the legs or standards of furniture, but are adapted for all movable articles; and it consists in certain peculiarities of construction, all as will be more fully set forth hereinafter.

In the drawings, Figure 1 is a vertical section of the leg of a piece of furniture with my improved caster applied thereto, and showing the ornamental covering of the same. Figs. 2 and 3 represent, respectively, detail top views in perspective of the revolving caster-plate, and of the same together with the bifurcated sleeve or hub. Fig. 4 is a side elevation of the parts shown in Fig. 1. Fig. 5 is a bottom view of the revolving caster-plate, showing a modified construction of caster. Fig. 6 is a similar view to Fig. 4, but representing a different ornamental covering.

My present invention is in part an improvement on that patented to me June 26, 1883, and numbered 280,061, which device was especially applicable to trunks, while, as stated above, my present caster is more especially designed for articles of furniture.

A represents the shell or "well" of my device, and A' is the "cup" or receptacle for the leg or other part of the piece of furniture to which the caster is to be applied, and the said well and cup are preferably cast in one piece, with intermediate plate, a, and downward-projecting vertically-perforated axle a'. The plate a has two or more holes, b b, to receive the screws B B, by means of which the device is fastened to the leg C or other part of the piece of furniture, as hereinafter described.

D is the revolving plate, corresponding to the "protecting-plate" of my patented device above named, but differing somewhat therefrom, inasmuch as it is not preferably integral with the hub of the roller-arms. This

plate D has a central perforation, d, to admit the pivot E, and a larger perforation, d', at one side of the center. The plate is further provided with another hole, d<sup>2</sup>, to admit the roller F, and on each side of this hole d<sup>2</sup>, on the upper face of the plate D, are the grooves d<sup>3</sup> d<sup>3</sup>, to receive the ends of the journal f of said roller F, and just beyond the ends of said grooves d<sup>3</sup> d<sup>3</sup> are the lugs or projections D' D'.

G is the sleeve or hub which encircles the axle a' of the shell A, said hub having a bifurcated extension, the arms g g' of which straddle the roller F, and the outer sides of said arms just fit between the lugs D' D'. The grooves d<sup>3</sup> are sunk, preferably, deep enough into the plate D so that the under side of the arms g g' will be enabled to rest flush with the upper surface of the said plate and cover the grooves, with the journal f, contained therein, although when the plate D is made very thin, if desired, the said arms g g' may be slightly notched or grooved on their under sides, so as to serve partly for the reception of the said journal, with the balance of said arms flush against the plate, as stated.

In Fig. 5 I show the under side of one of the plates D, with the roller F spherical in outline. In such cases the hole d<sup>2</sup> in the plate D should be made to correspond therewith, as shown.

When the several parts of my device—namely, the shell A, hub G, roller F, and plate D—all are put together in proper position, the pivot or rivet E is slipped up to place through the hole d in the plate and the vertical perforation a<sup>2</sup> in the axle a', and the upper end of said rivet E is then upset, as shown at e, within the enlargement a<sup>3</sup> of the central bore, a<sup>2</sup>, of the axle a', thus securing all these parts firmly together, as shown in Fig. 1, and yet permitting the plate D and roller F, sustained therein, to freely revolve.

H is an ornamental outer covering, which may be composed of thin metal, cast or stamped into the form desired, and plated, japanned, burnished, enameled, or otherwise ornamented, or may be made of glass, porcelain, wood, papier-maché, or any other material desired. The exterior of this covering H may be of any



configuration or ornamentation preferred, as shown in Figs. 4 and 6, while its interior should conform to the exterior shape of the shell A, cup A', and leg or other part of the furniture, C, sufficiently to fit closely thereon at several points above and below, so as to prevent the entrance of dust and avoid rattling.

Supposing that my improved casters are to be applied to the legs of a table or chair, the caster A, &c., and outside covering, H, are put in position upon the end of the said legs, which have previously been partly bored out to receive the points of the screws B B, and then the shell is turned until the holes *b b* in the intermediate plate, *a*, are over the said holes in the leg C, when the plate D is next turned until its hole *d'* is also over one of the said holes *b*, and then a screw B is dropped to place and forced home, the screw-driver being inserted through the said hole *d'* of the plate D, thus easily screwing the screw B into the leg. Next, the plate D is turned around until its hole *d'* is now over the other hole *b*, and the other screw B is similarly fastened.

When my device is intended to be used on trunks or upon pieces of furniture which are not provided with legs, the cup A' can be modified correspondingly; and I wish it distinctly

understood that I do not limit myself to any particular shape, height, or relative dimensions of said cup, which is always to be made to conform to the part of the piece of furniture or other article to which my casters are to be attached.

Under some circumstances I may dispense with the ornamental covering H; but when it is employed the shell of the caster may be a rough casting, thus decreasing the cost of manufacture of my improved device.

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

In a revolving caster, the combination of the shell A, having central and vertically-perforated axle *a'*, plate D, having the holes *d* *d'* and grooves *d'' d'''*, and lugs D' D' on its upper face, hub G, with arms *g g*, roller F, with journal *f*, and pivot or rivet E, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

SIGISMUND M. MICHELSON.

Witnesses:

H. G. UNDERWOOD,  
H. J. FORSYTHE.