

No. 682,795.

Patented Sept. 17, 1901.

J. M. GERMANSON.  
REVOLVING CHAIR.

(Application filed Sept. 5, 1899.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

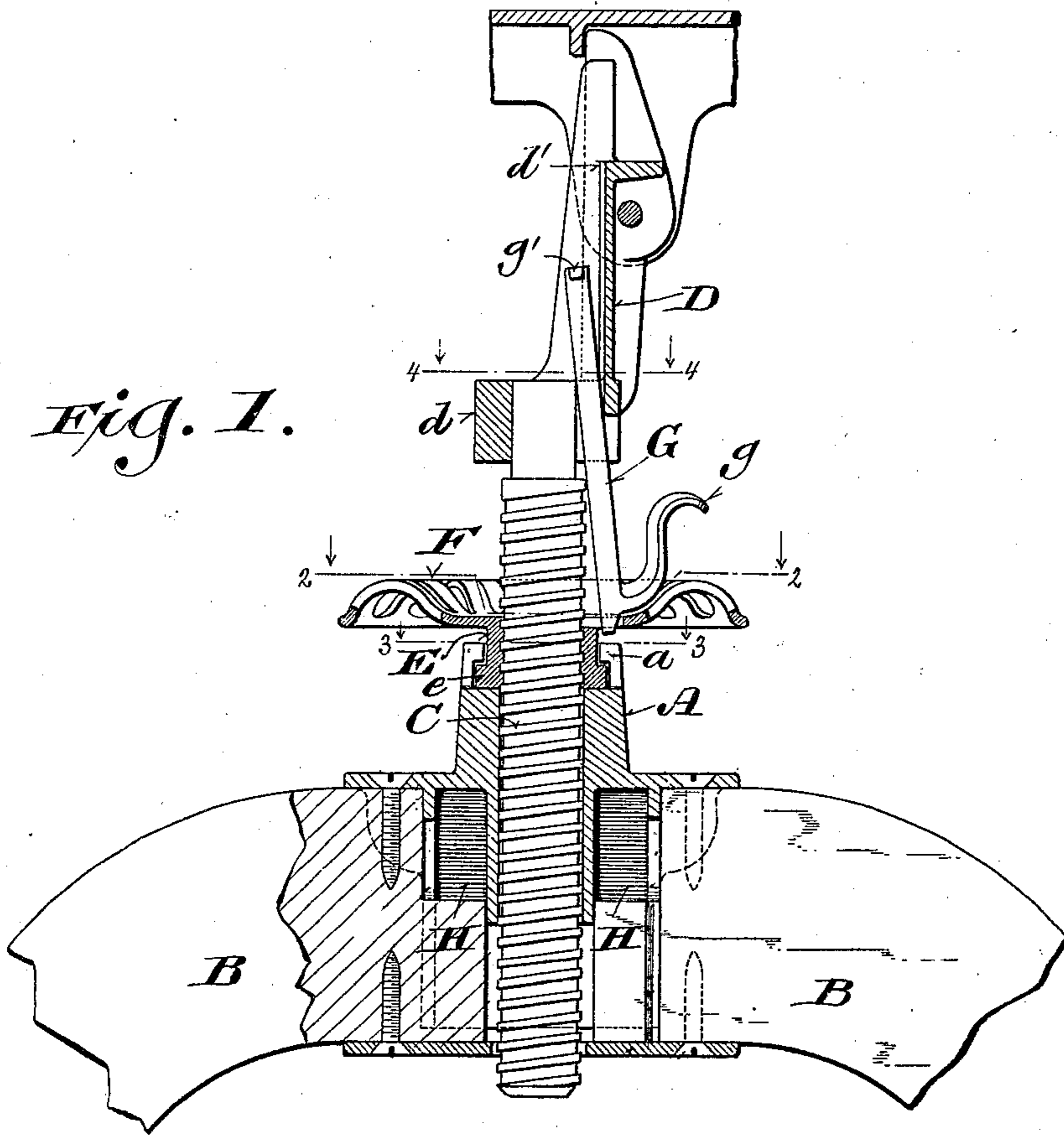


Fig. 2.

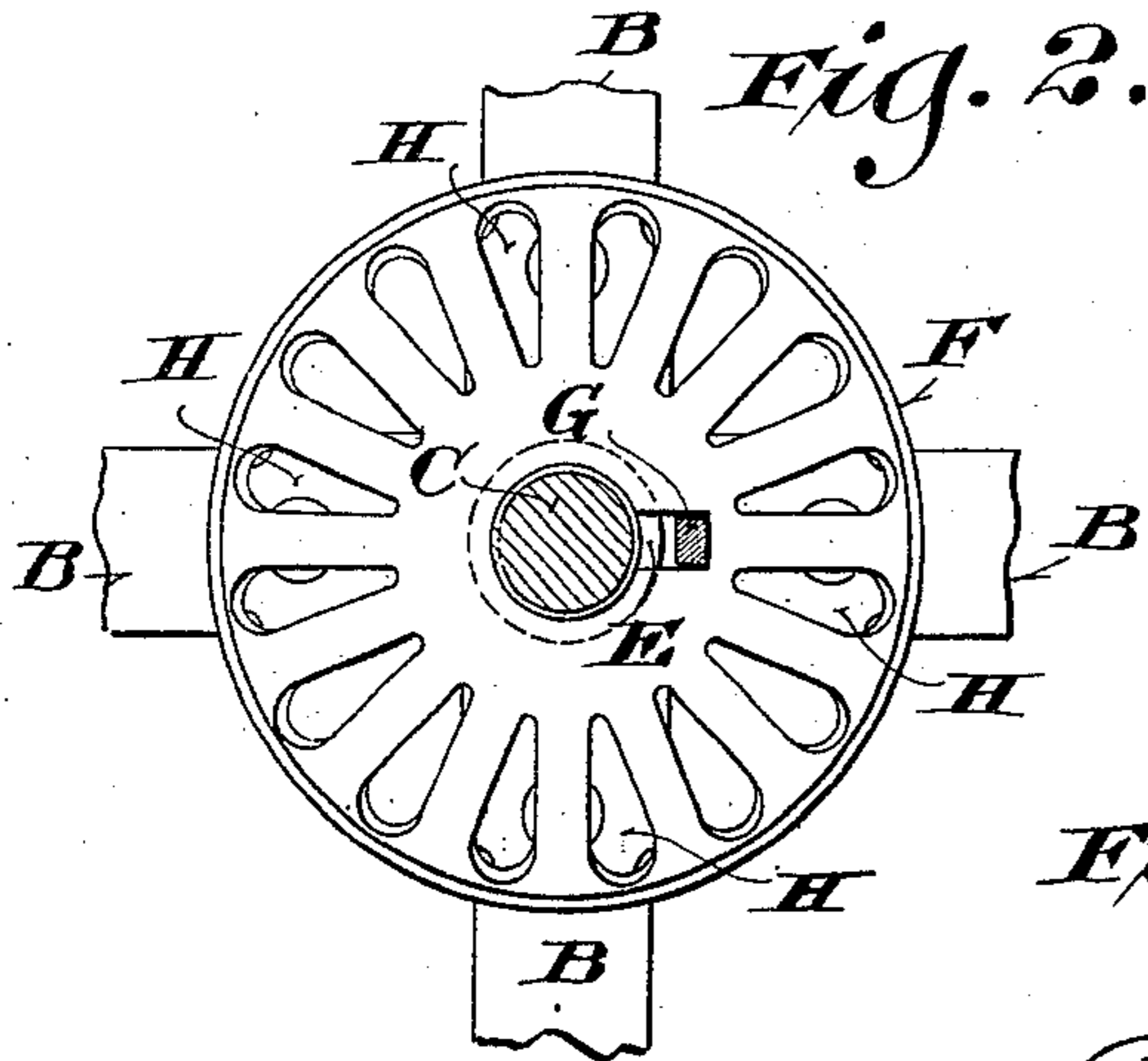


Fig. 3.

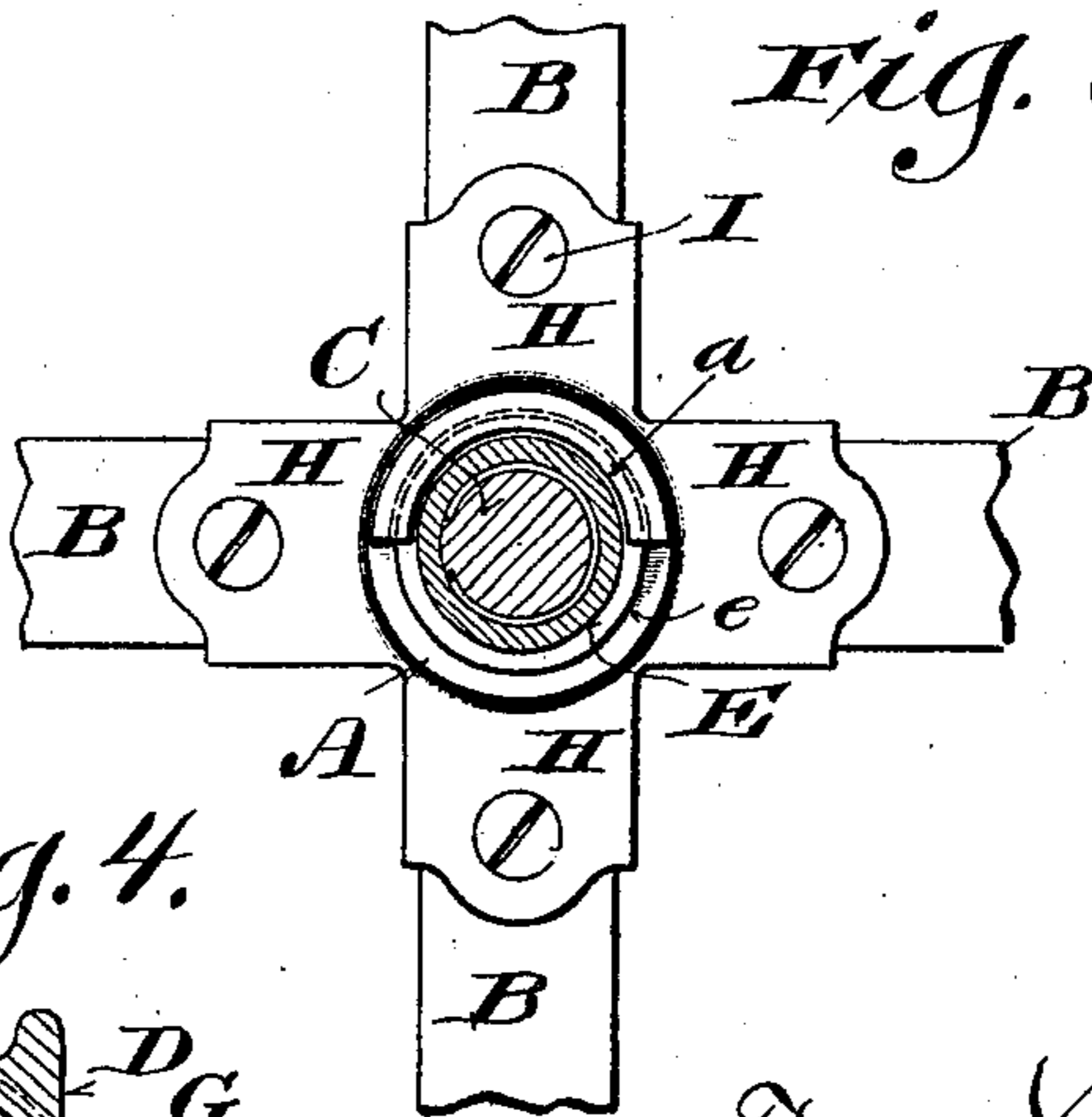
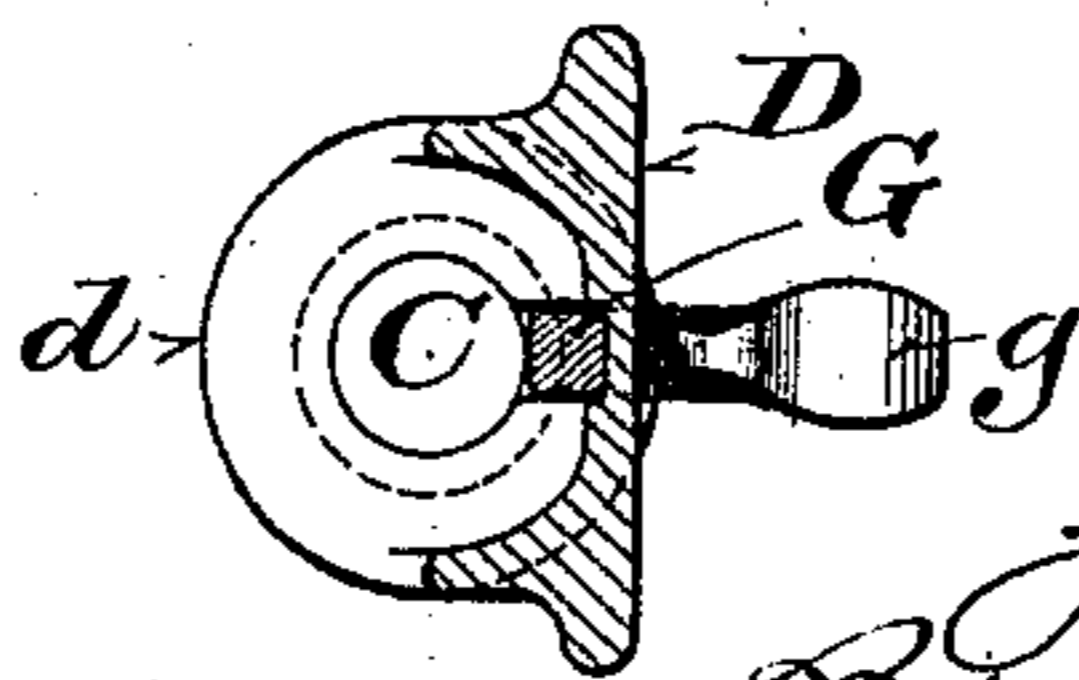


Fig. 4.



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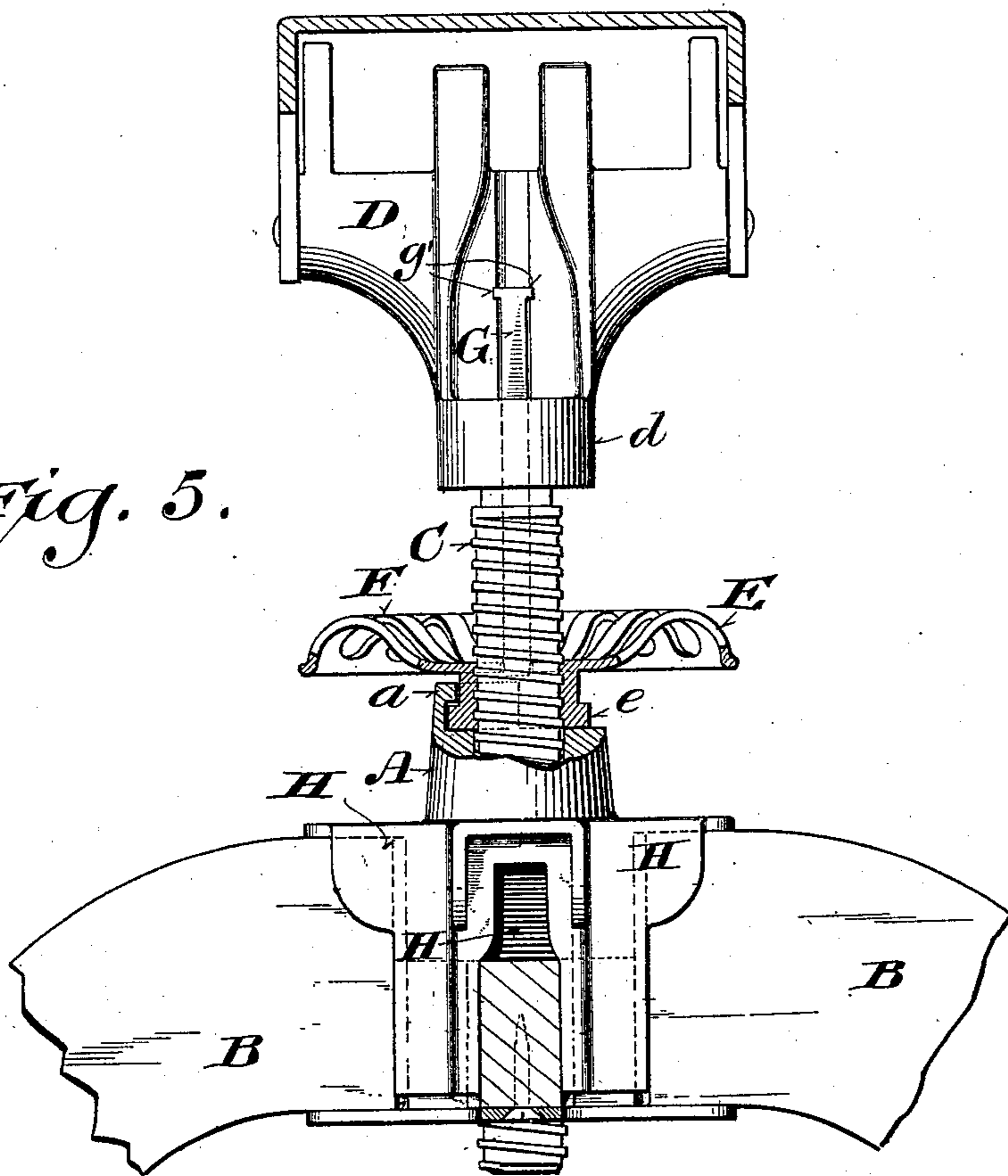
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2 Sheets—Sheet 2.

*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

JULIUS M. GERMANSON, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO  
WESTERN MALLEABLE AND GREY IRON MANUFACTURING COM-  
PANY, OF SAME PLACE.

## REVOLVING CHAIR.

SPECIFICATION forming part of Letters Patent No. 682,795, dated September 17, 1901.

Application filed September 5, 1899. Serial No. 729,451. (No model.)

*To all whom it may concern:*

Be it known that I, JULIUS M. GERMANSON, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Revolving Chairs, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to that class of revolving-chair irons in which the turning of the spindle in the hub of the base does not affect the vertical adjustment of the chair-seat.

The main object of the invention is to simplify and improve the construction and operation of devices of this class; and it consists in certain novel features of construction and in the arrangement and combination of parts hereinafter particularly described, and defined in the claims.

In the accompanying drawings like letters designate the same parts in the several figures.

Figure 1 is a view, partly in side elevation and partly in vertical medial section, of chair-irons embodying my improvements. Figs. 2, 3, and 4 are cross-sections thereof in planes indicated by the dotted lines 2 2, 3 3, and 4 4, respectively, on Fig. 1; and Fig. 5 is a side elevation of the chair-irons viewed from the left with reference to Fig. 1.

A designates the hub, which, with the legs B B attached thereto, constitutes the base of the chair. The hub is formed with a plain vertical bore and on the upper end with an inturned segmental flange or lug *a*.

C is a screw-threaded spindle fitted to turn freely and to be adjusted vertically without turning in the bore of said hub. It is provided at its upper end with a head or standard D. This head or standard may be conveniently secured on the upper end of said spindle, which is preferably turned down or reduced in diameter, as shown, by means of a collar *d*, formed on the lower end of said head or standard. To this head or standard the spider or seat-supporting frame of the chair is pivoted or otherwise attached in the usual or any suitable manner. E is a nut fitted on said spindle and formed at its lower end with

an outwardly-projecting annular flange or shoulder *e*, which is adapted to pass on one side under the inturned flange or lug *a* on the hub and to hold said nut in revoluble engagement with said hub. For convenience in adjusting the chair-seat vertically the nut is formed or provided at its upper end with a hand-wheel F.

G is a catch for locking the spindle C and the nut E together, so as to prevent any change in the vertical adjustment of the spindle in the hub by the turning of the spindle in the ordinary use of the chair. This catch is preferably made in the shape of a straight square bar which passes through and slides freely in a vertical opening or groove in one side of the bore of the collar *d* next to the spindle C, as clearly shown in Figs. 1, 2, and 4. It is formed or provided at its lower end with a tooth which is adapted to engage with an opening in the upper end of the nut E or in the hand-wheel F, and just above said tooth it is formed or provided with an outwardly-projecting thumb-piece *g* for lifting it out of engagement with said nut or hand-wheel. At its upper end it is formed, as shown in Figs. 1 and 5, with one or more lateral projections *g'*, which when it is raised to the limit of its upward movement are adapted to engage with a ledge *d'* on the head or standard, and thereby hold said catch up out of operative position, so as to permit of turning the hand-wheel and nut on the spindle, and thus raising and lowering the spindle in the hub. The projections *g'* may, however, be omitted and the lower end of the catch lifted above and carried inwardly upon the shoulder near the upper end of the spindle to hold it up out of engagement with the nut or hand-wheel. These projections, however, serve the additional purpose of holding the catch in place and preventing its detachment and loss when the spindle is removed from the hub and nut or when it is turned up out of the nut beyond the usual limit of adjustment.

For the secure attachment of the legs the hub may be formed with sockets H H, as shown in Figs. 1, 3, and 5.

The construction hereinbefore described, in

addition to the advantages above mentioned, requires little or no machine or hand work, involves few parts, and is consequently simple and economical to make.

5 The minor details of construction may be variously modified without affecting the desired results secured by my improvements and without departing from the spirit and intended scope of my invention.

10 I claim—

1. The combination with the hub of a chair-  
base having a smooth bore, of a threaded spin-  
dle fitted to turn freely in said hub, a nut pro-  
vided with an opening and revolubly connect-  
15 ed with said hub in engagement with the  
thread on said spindle, and a vertically-mov-  
able gravity-catch carried by said spindle and  
adapted when raised and turned with the spin-  
dle opposite the opening in said nut to drop  
20 into engagement therewith and lock the nut  
upon said spindle, substantially as described.

2. The combination with the hub of a chair-  
base having a smooth bore, of a threaded spin-  
dle adapted to turn freely in said hub, a nut  
25 adapted to engage the thread on said spindle

and revolubly connected with said hub, a ver-  
tically-movable catch carried by said spindle  
and adapted when released to drop into en-  
gagement with said nut and to lock the same  
upon said spindle, and means for holding said 30  
catch up out of locking position, substan-  
tially as described.

3. The combination with the hub of a chair-  
base having a smooth bore, of a threaded spin-  
dle fitted to turn freely in the bore of said hub 35  
and provided with a head having a vertical  
opening, a nut fitted to engage with said spin-  
dle and revolubly connected with said hub,  
and a locking-bar movable endwise in the  
opening of said head into and out of engage- 40  
ment with said nut and provided with an  
outwardly-projecting handle for lifting it out  
of engagement with the nut, substantially as  
described.

In witness whereof I hereto affix my signa- 45  
ture in presence of two witnesses.

JULIUS M. GERMANSON.

Witnesses:

CHAS. L. GOSS,

W. J. FAIRBAIRN