

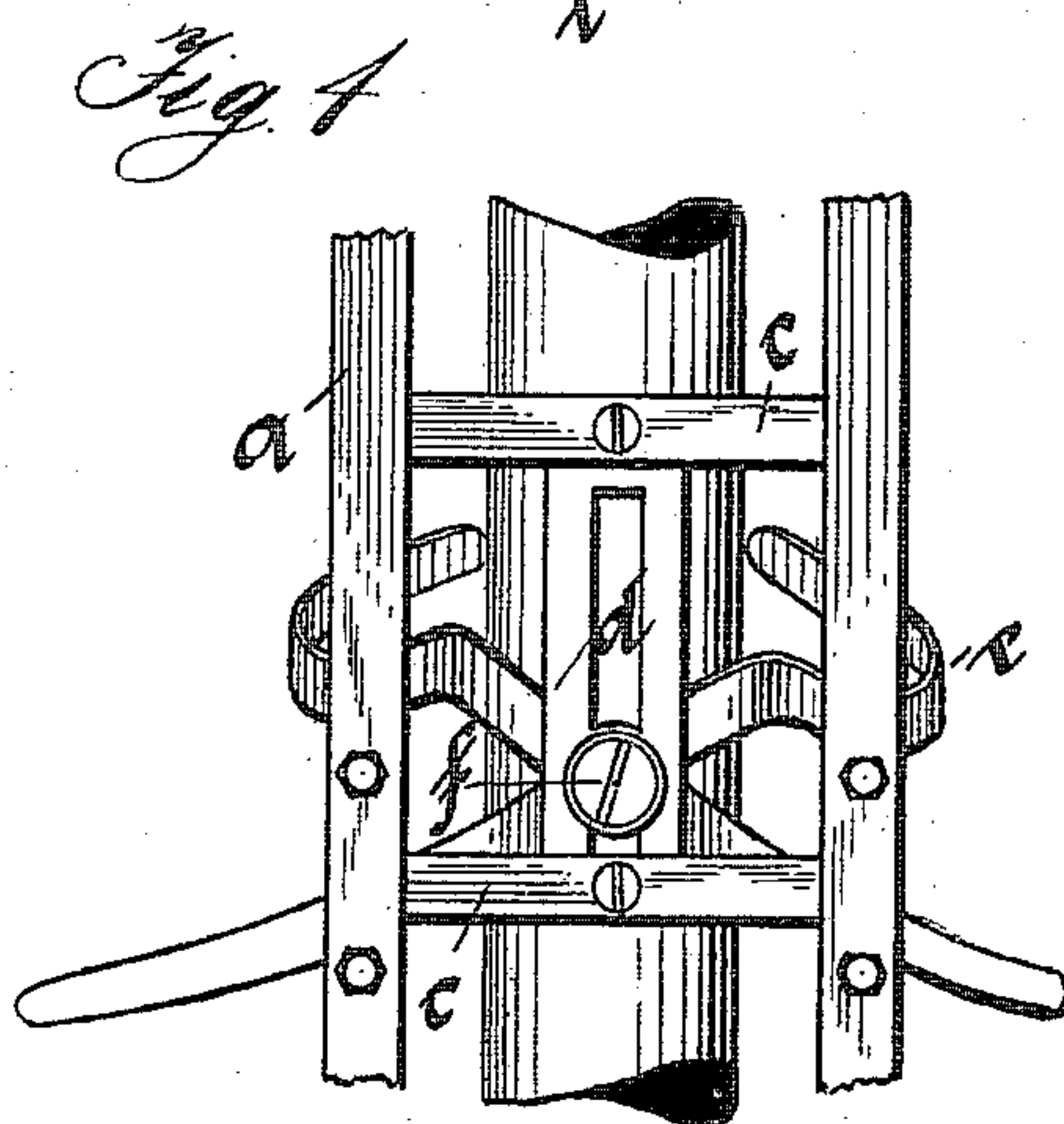
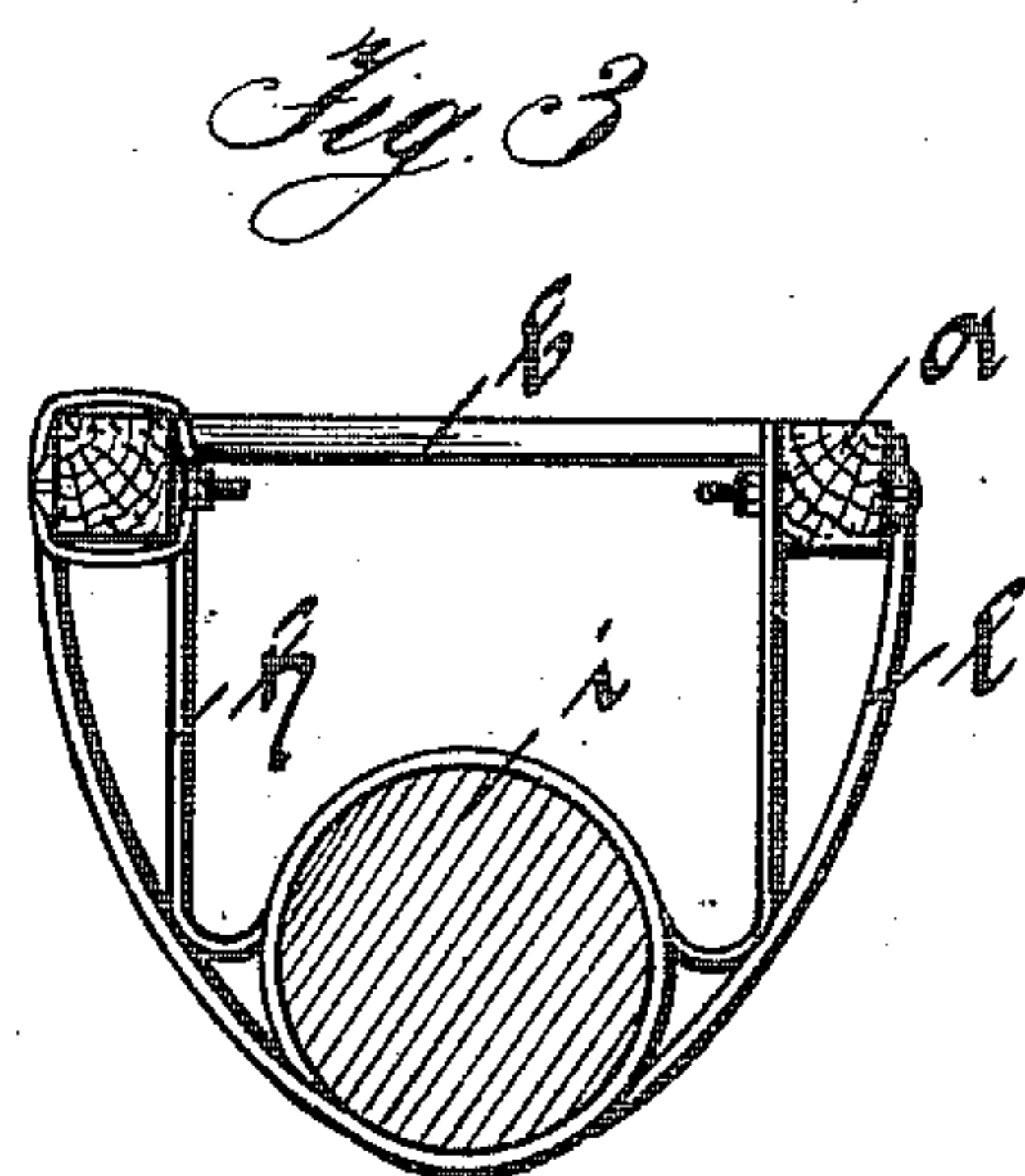
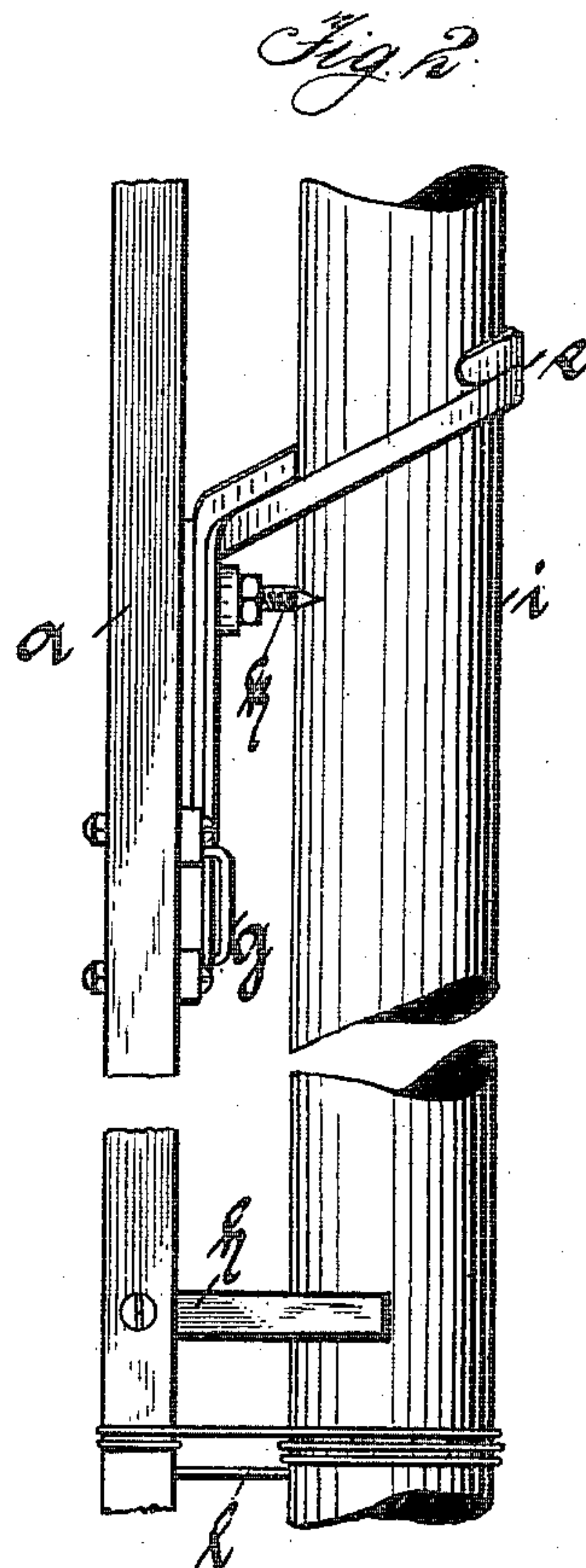
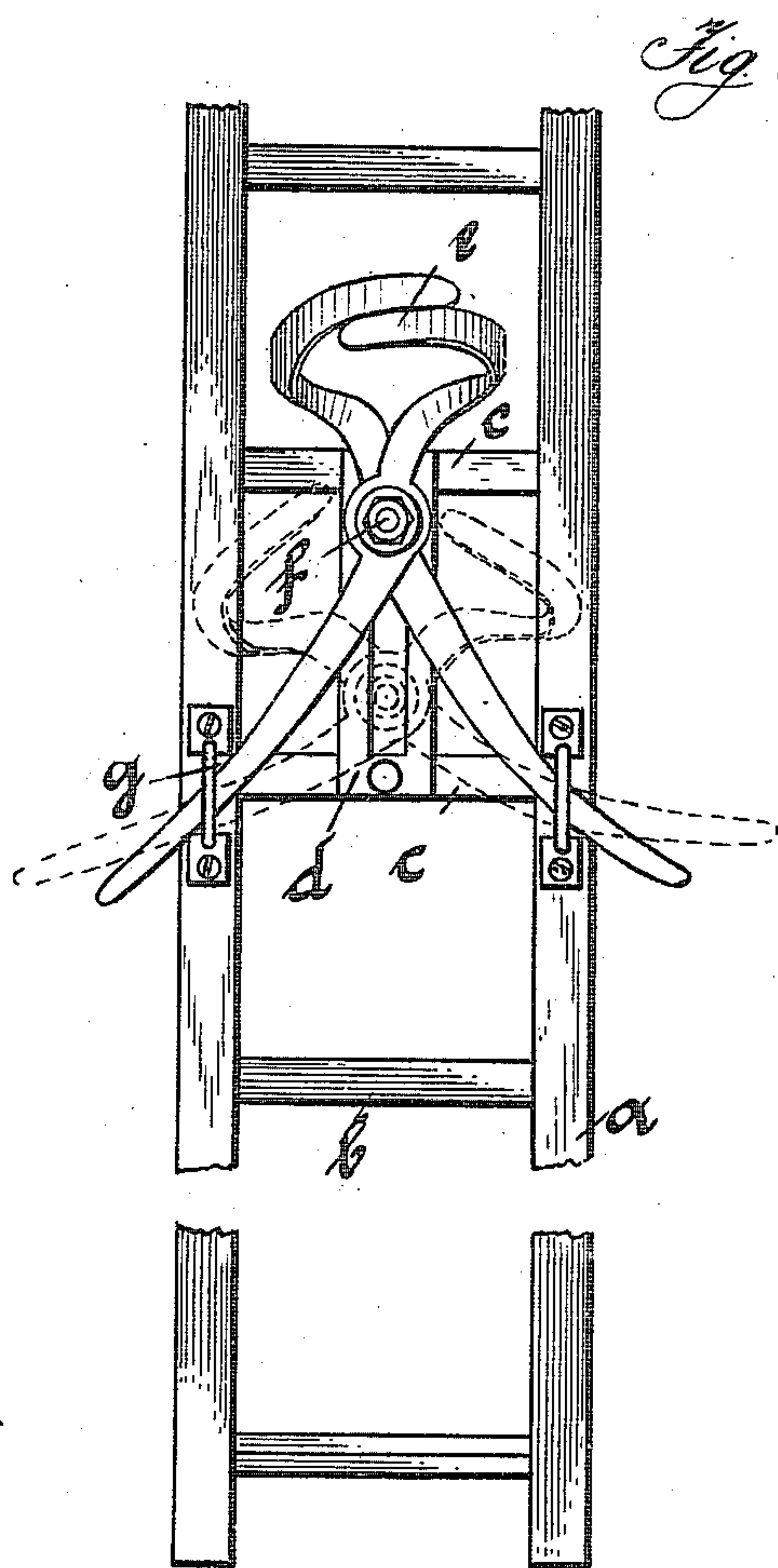
T. JAUCH & B. ROSENFELDER.

LADDER.

APPLICATION FILED NOV. 11, 1909.

985,349.

Patented Feb. 28, 1911.



Witnesses  
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# UNITED STATES PATENT OFFICE.

THOMAS JAUCH AND BERTIN ROSENFELDER, OF SCHWENINGEN, GERMANY.

## LADDER.

985,349.

Specification of Letters Patent.

Patented Feb. 28, 1911.

Application filed November 11, 1909. Serial No. 527,454.

*To all whom it may concern:*

Be it known that we, THOMAS JAUCH and BERTIN ROSENFELDER, subjects of the German Emperor, and residents of Schweningen-on-the-Neckar, Germany, have invented Improvements in and Relating to Ladders, of which the following is a specification.

The subject of the present invention concerns improvements in and relating to ladders and relates more especially to providing a ladder with means whereby it can be attached to poles, masts and the like for the purpose of ascending them and can be easily detached when no longer required.

The essential features of this invention consist in that a ladder is provided with two transverse bars on which is secured a slotted bar adapted to carry a clamping device which serves to embrace a mast, pole or the like.

A further feature consists in the provision of a metal frame carried by the ladder, which frame is adapted to keep the ladder a certain distance from the pole or mast and is also adapted to prevent the ladder from moving sidewise when in position.

In order that this invention may be clearly understood reference is made to the accompanying drawing, in which—

Figures 1 and 2 show a front and side elevation respectively, of the device. Fig. 3 is a plan of same, while Fig. 4 is a rear elevation.

The ladder is of the shape common to the known types and has two side pieces *a* provided with transverse rungs *b*. The upper part of the ladder carries two transverse bars *c*, to which is secured a perpendicular bar or plate *d* provided with a longitudinal slot.

A screw *f* projects through said slot and carries a pivotally mounted clamping device *e*. The clamping device consists of two members with their upper end bent round so as to be able to embrace a pole or mast (see Figs. 1 and 2), while the lower ends of the members are slightly curved.

The members are secured on the screw *f* by means of a suitable nut, the end *h* of the screw being formed into a point. Secured

to the side pieces *a*, are two squarely bent guide pieces *g* adapted to receive the curved ends of the members. Lower down the ladder, a metal frame *h* is provided, the sides of which are straight while the remaining surface is bent so as to receive a pole, mast or the like, the free end of the sides of the frame being secured by bolts and nuts to the side pieces of the ladder. The purpose of the frame is to keep the ladder at a given distance from the mast, pole or the like, and prevent it from moving sidewise, whereby it is easier to ascend said ladder. If desired a rope *l* or other binding material can be passed around the ladder and mast, just below the frame *h* (Figs. 2 and 3).

The application of the ladder is as follows:—The ladder is raised slightly from the floor or ground and the pointed end of the screw is pressed or driven into the pole or mast *i*. The ladder is then let drop whereupon the screw glides in the slot of the bar *d*, the members of the clamping device are actuated, and the device embraces the pole in the manner shown in Fig. 2. The rope *l* or the like can then be passed around the ladder and pole with a view to greater safety. To remove the ladder the rope is removed and the ladder lifted up sharply, this will open the clamping device and also cause the pointed edge of the screw to disengage from the pole.

In the case of iron masts or poles it is preferable to provide the latter with rings or with suitable recesses in which the end of the screw can engage.

The device is more particularly adapted for climbing work in connection with telegraph poles.

Having fully described our invention, what we claim and desire to secure by Letters Patent is:—

Improvements in and relating to ladders, comprising in combination, two transverse bars carried near the top of a ladder, a slotted perpendicular bar or plate carried by the transverse bars, a screw mounted in the slot of the perpendicular bar and capable of sliding therein, a clamping device carried by the screw, two suitably shaped members constituting said device, guide

pieces situated on the ladder and adapted to receive the lower ends of said members, and a metal frame having two straight sides and a curved side, said frame being carried by  
5 the ladder and serving to keep same away from the pole, substantially as described and shown, and for the purpose set forth.

In testimony whereof we have hereunto

set our hands in the presence of two subscribing witnesses.

THOMAS JAUCH.  
BERTIN ROSENFELDER.

Witnesses:

ERNEST ENTENMANN,  
FRIDA KLAIBER.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

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