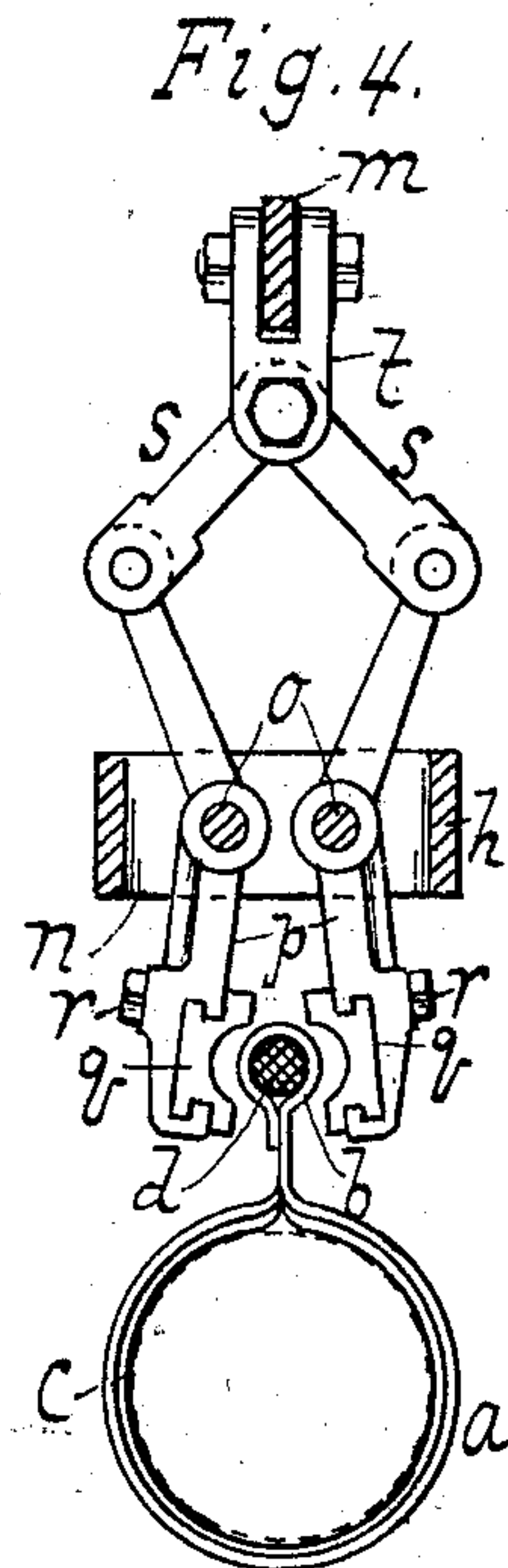
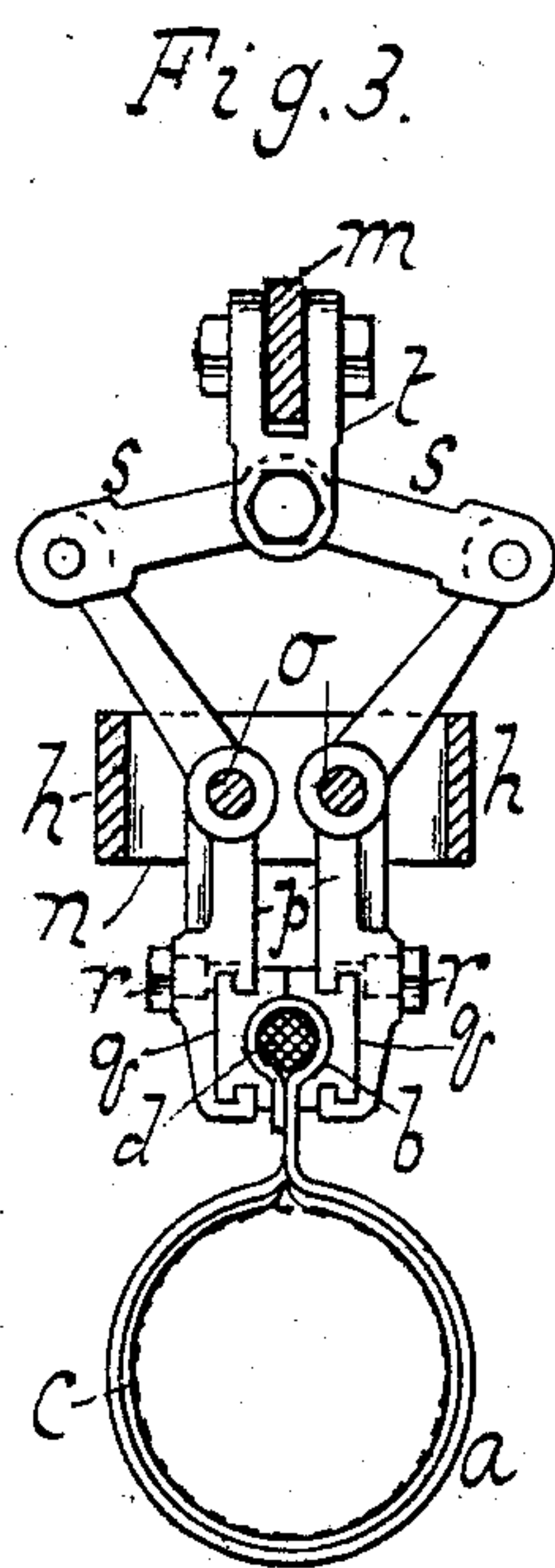
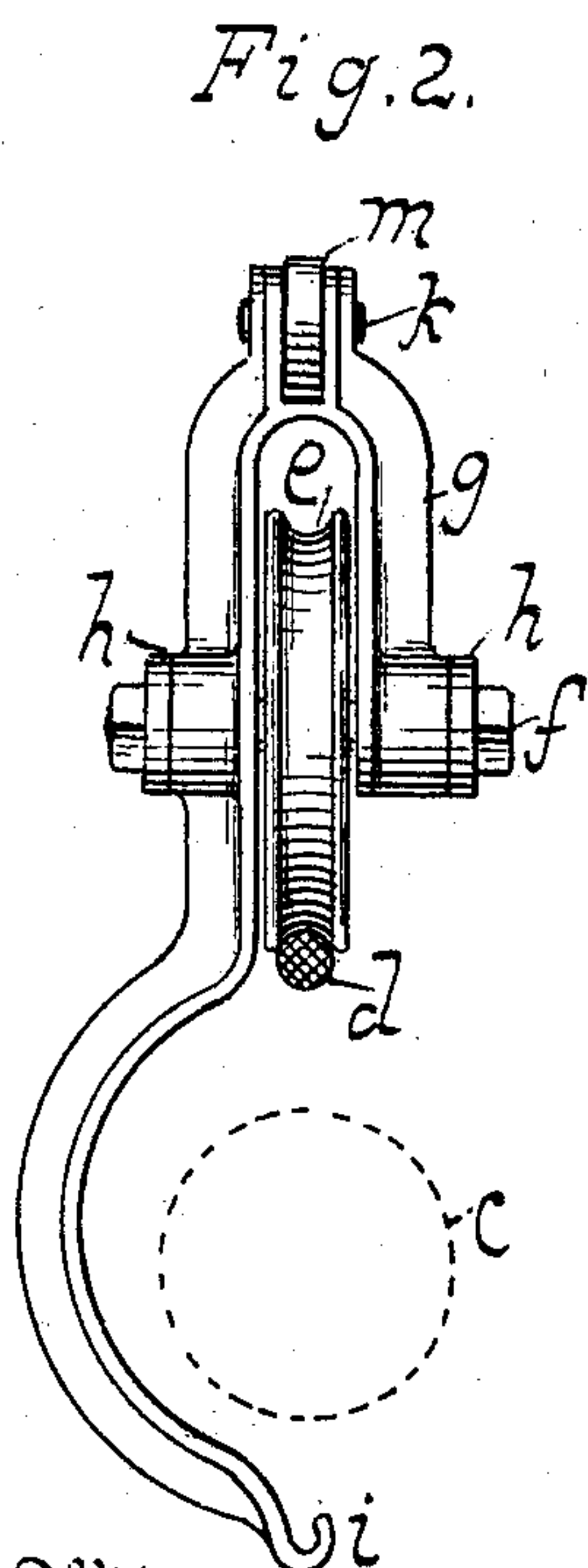
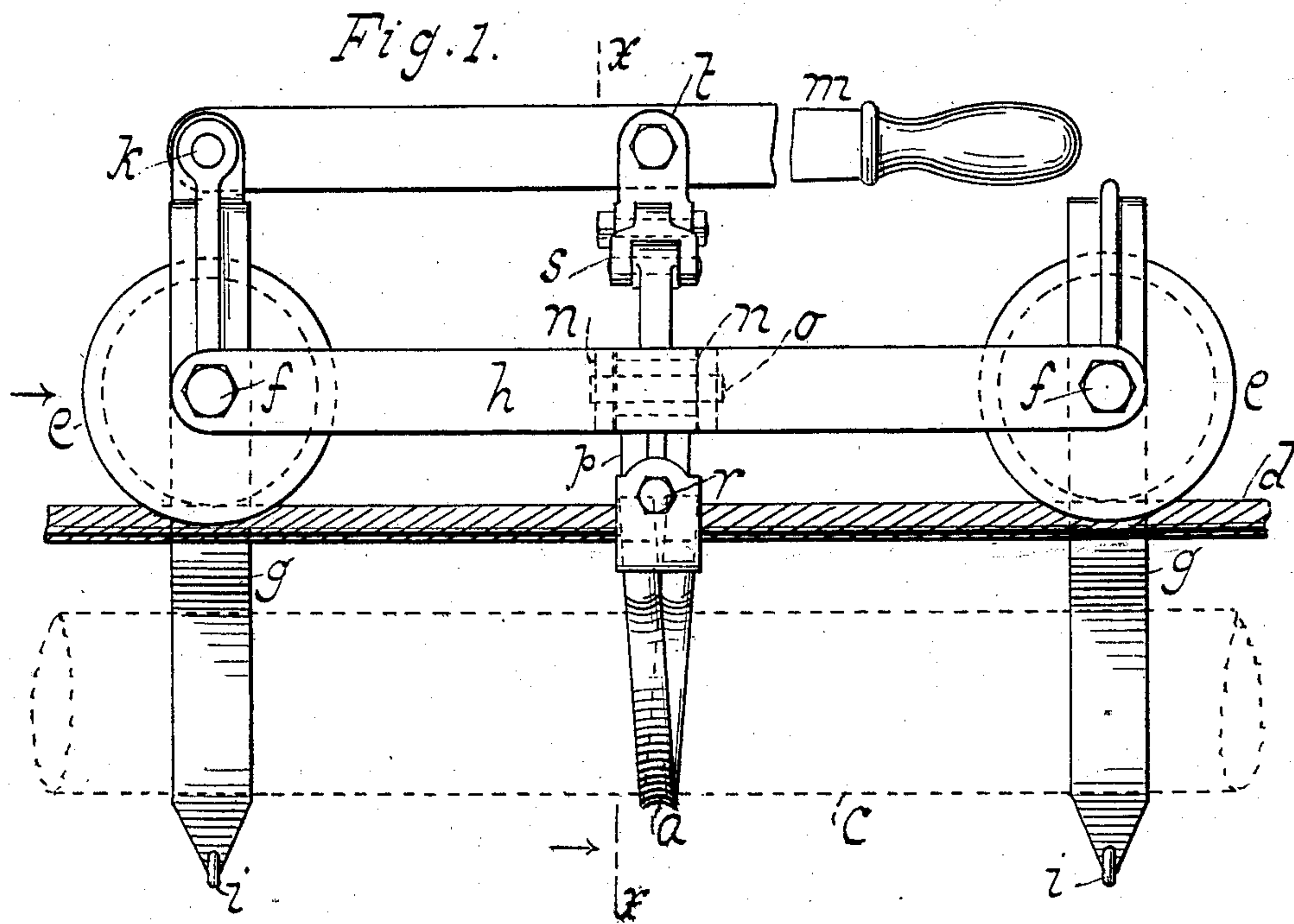


S. E. GREGSON.  
 WORKMAN'S SUPPORTING BLOCK.  
 APPLICATION FILED NOV. 8, 1909.

994,459.

Patented June 6, 1911.



Witnesses:  
 William Miller  
 Christian Almstaedt

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 Stephen E. Gregson  
 By his Attorneys  
 Hauff & Warland



# UNITED STATES PATENT OFFICE.

STEPHEN E. GREGSON, OF NEWARK, NEW JERSEY.

## WORKMAN'S SUPPORTING-BLOCK.

994,459.

Specification of Letters Patent.

Patented June 6, 1911.

Application filed November 8, 1909. Serial No. 526,830.

*To all whom it may concern:*

Be it known that I, STEPHEN E. GREGSON, a subject of the King of England, residing at Newark, in the county of Essex and State of New Jersey, have invented new and useful Improvements in Workman's Supporting-Blocks, of which the following is a specification.

In certain electric instalments as found for example in the operation or system of certain trolley car lines and the like a so-called feeder or feed cable when borne by aerial rings has these rings suitably clenched or clamped to a supporting cable.

The device forming the subject of this invention is adapted to suitably clamp or clench these rings to the supporting cable so that they will not shift or slide thereon. At the same time this device is adapted to suitably support or seat the workman or operator while applying these rings to the supporting cable.

This invention is set forth in the following specification and claims and illustrated in the annexed drawing in which:—

Figure 1 represents a side elevation of a workman's supporting block embodying this invention and supported upon a cable in position for operation. Fig. 2 is an end view of Fig. 1. Fig. 3 is a section along the line *x x* Fig. 1 the hand lever being depressed. Fig. 4 is a view like Fig. 3 the lever being raised and the jaws open.

Reference being had to said drawings, and to the letters marked thereon, *a* designates one of the aerial rings which support the feed cable *c* and are themselves suspended from the supporting cable *d* by means of their bent or hook-shaped extremities *b*, said extremities being clenched around and against the latter cable by mechanism hereinafter described. This mechanism is borne by a carriage designed to travel along cable *d* and provided for that purpose with grooved wheels *e* mounted in the upper yoke-shaped portions of brackets *g* which constitute the end members of the carriage. These brackets are connected by side-pieces *h* connected in turn by cross-pieces *n*. The above mentioned yoke-shaped upper portions of the brackets straddle the wheels and have their legs formed with alining bosses wherein the axles of said wheels are received, displacement of the axles being prevented by nuts *f* or equivalent devices attached to the ends thereof. The lower portions of

said brackets are bowed and terminate at their free ends in hooks *i* from which a boatswain's chair or other suitable seat, (not shown), for the workman is suspended.

At the upper end of one of the brackets *g*, the front bracket in the construction illustrated, there is provided a fulcrum seat *k* wherein is pivoted one end of an operating lever *m* connected intermediate its ends by a link *t* with a toggle *s* or other suitable device of a similar nature. The members of this toggle are connected to and serve to actuate a pair of two-armed working levers *p* pivoted at *o* to the adjacent cross-piece *n*. The lower arms of the levers carry removable clenching jaws *q* held in place in recesses therein by means of screws *r*. The arrangement is such that when the operating lever *m*, which is within easy reach of the workman in the chair, is depressed into the position shown in Figs. 1 and 3, its movement will actuate the levers *p* through the medium of the link *t* and the toggle *s*, whereupon the jaws *q* of said levers will be forced into engagement with the bent extremities *b* of ring *a*, and said extremities will be clenched tightly around the supporting cable *d*. At the conclusion of this operation, the operating lever is raised, thereby swinging the jaw-carrying ends of levers *p* away from the supporting cable, as shown in Fig. 4.

I claim:—

1. In an apparatus of the class specified, a traveling carriage comprising end brackets wheels mounted therein, side-pieces connecting said brackets, and cross-pieces connecting said side-pieces; in combination with an operating lever pivoted to one of said brackets, a pair of working levers pivoted to one of said cross-pieces and provided with cooperating clenching jaws, a toggle for actuating said working levers simultaneously, and a connecting link between said operating lever and said toggle for actuating the latter when the former is operated.

2. In an apparatus of the class specified, a traveling carriage comprising end brackets each having a yoke-shaped upper portion and a bowed lower portion terminating in a hook, said hooks being adapted to support a swing suspended therefrom, a wheel mounted in the first-named portion of each bracket, and side-pieces connecting said brackets; in combination with a pair of working levers pivotally connected with said side-pieces and



provided with coöperating jaws, an operating lever pivoted to one of said brackets, and connections between said operating lever and said working levers for actuating the latter when the former is operated.

3. In an apparatus of the class specified, a traveling carriage comprising end brackets each having a yoke-shaped upper portion and a bowed lower portion terminating in a hook, said hooks being adapted to support a swing suspended therefrom, one of said brackets being formed at its upper end with a seat, side-pieces connecting said brackets, and cross-pieces connecting said side-pieces; in combination with an operating lever piv-

oted at one end in said seat, a pair of working levers pivoted to one of said cross-pieces and provided with coöperating clenching jaws, a toggle for actuating said working levers simultaneously, and a connecting link between said operating lever and said toggle for actuating the latter when the former is operated.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

STEPHEN E. GREGSON.

Witnesses:

W. C. HAUFF,

CHRISTIAN ALMSTAEDT.

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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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