

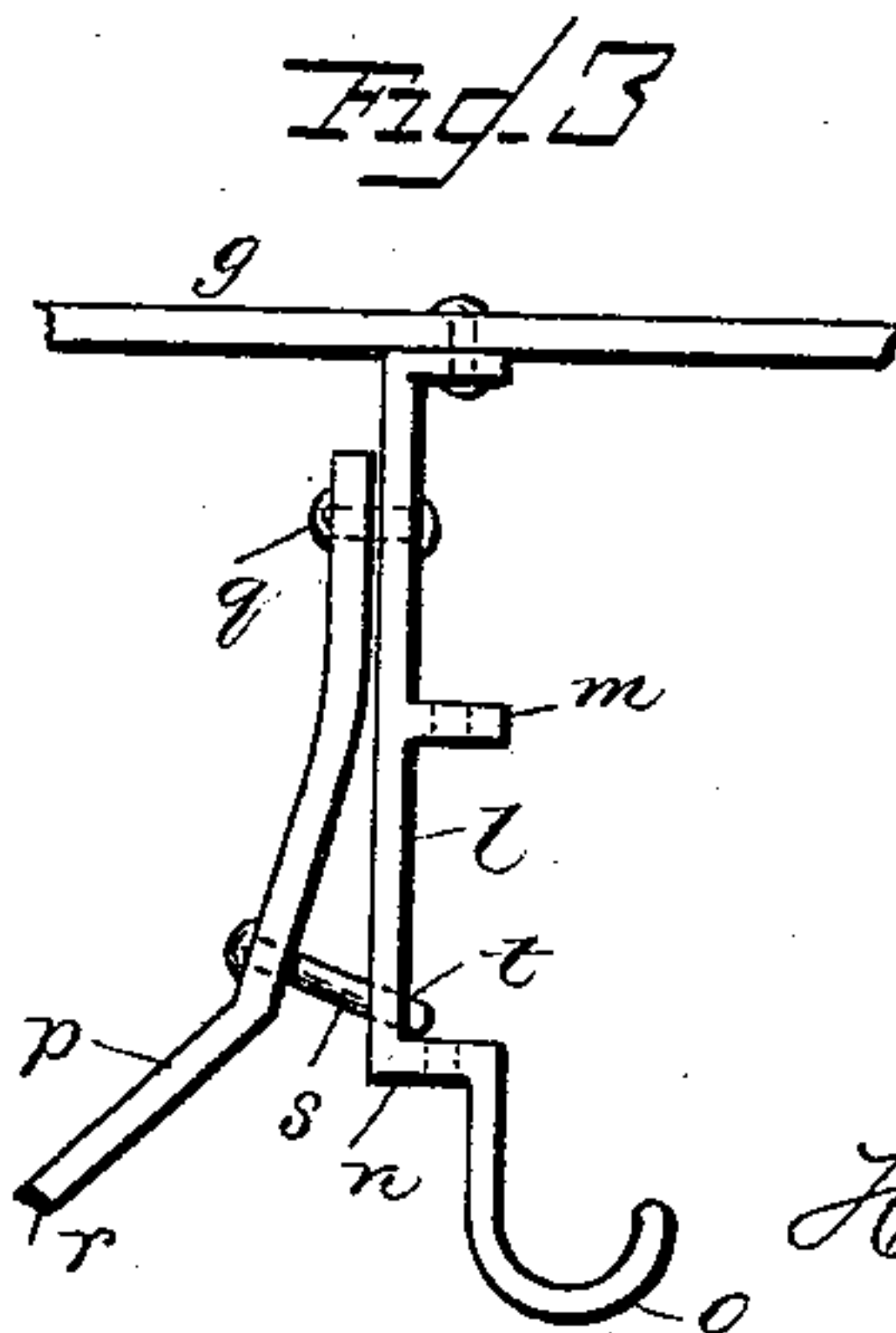
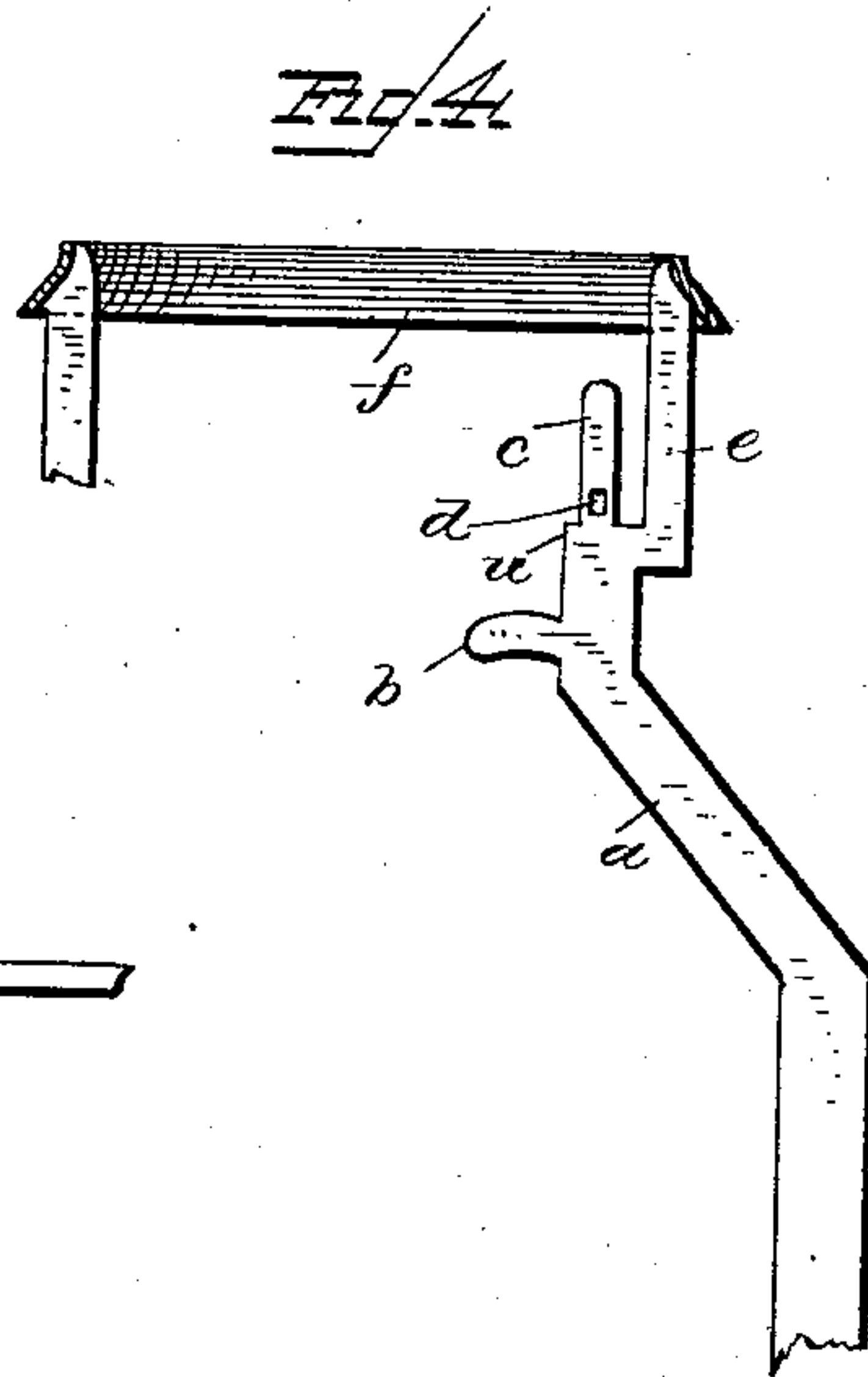
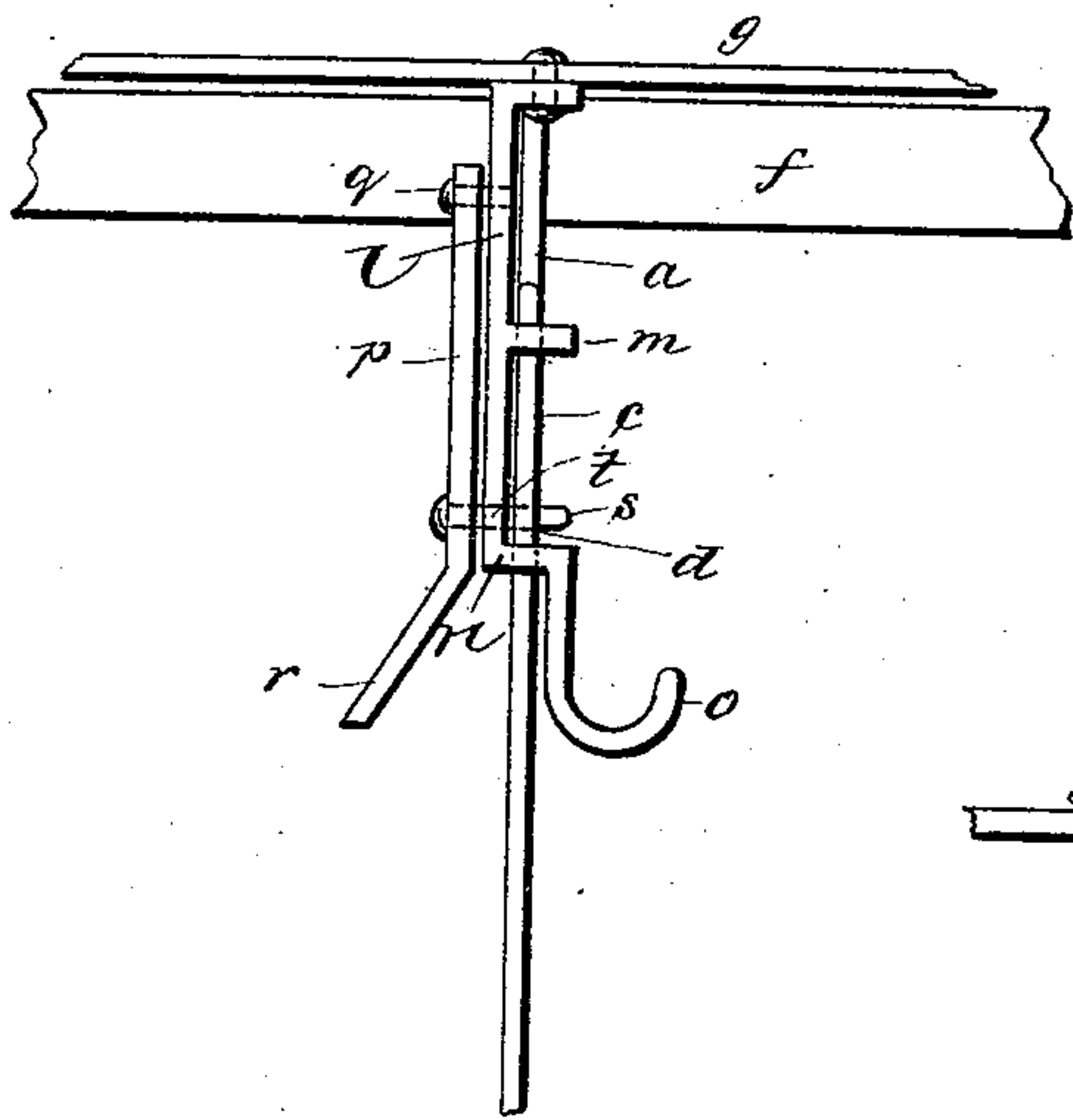
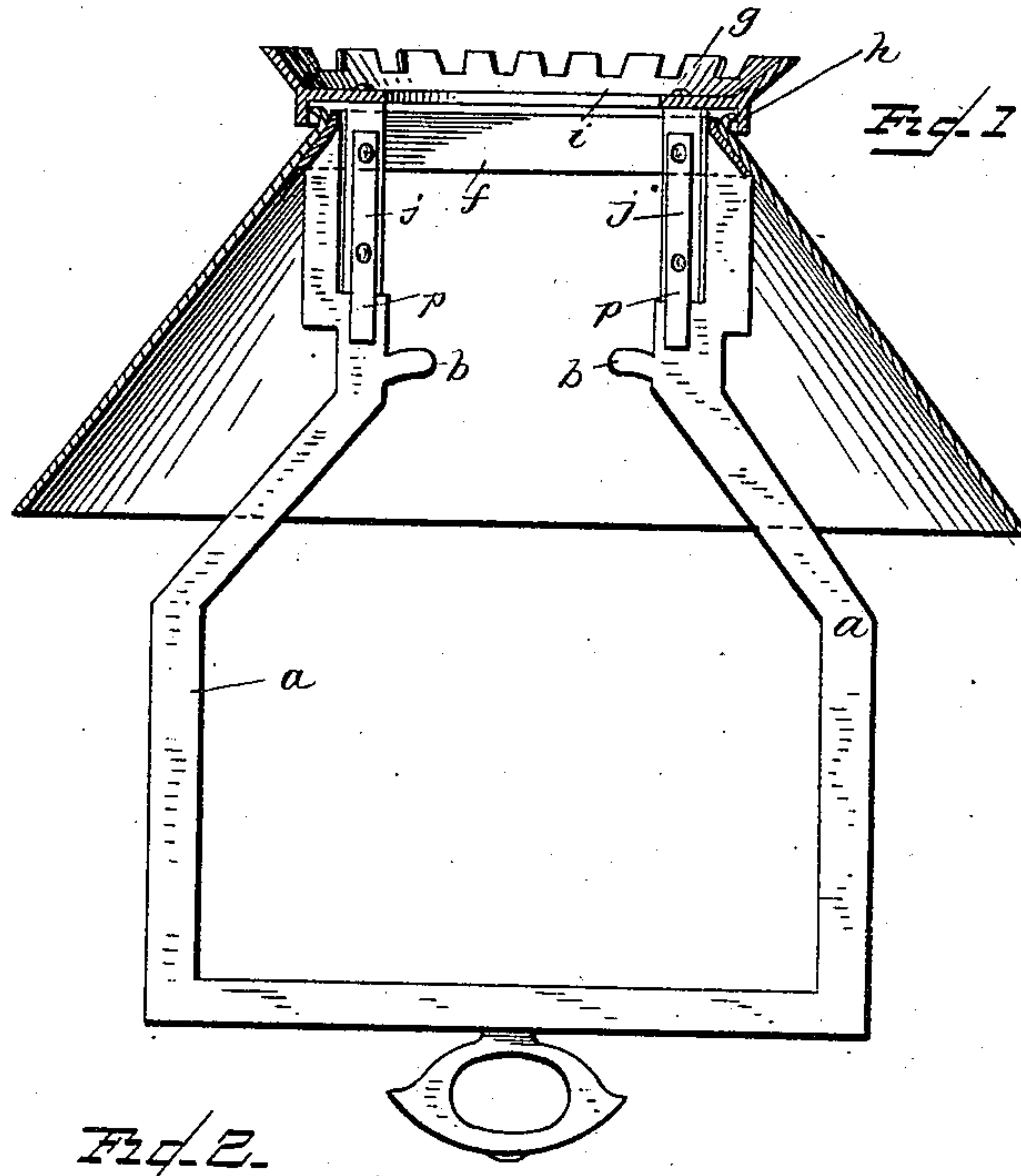
(No Model.)

H. F. JAEGER.

HANGING LAMP.

No. 304,201.

Patented Aug. 26, 1884.



WITNESSES
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UNITED STATES PATENT OFFICE.

HERMAN F. JAEGER, OF CHICAGO, ILLINOIS.

HANGING LAMP.

SPECIFICATION forming part of Letters Patent No. 304,201, dated August 26, 1884.

Application filed October 18, 1883. (No model.)

To all whom it may concern:

Be it known that I, HERMAN F. JAEGER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Hanging Lamps, of which the following is a full, clear, and exact description.

This invention is in the nature of improvements in hanging lamps, in which the harp is separable from its support, and has special reference to facilitating the removal of the harp or frame in which the lamp is supported, to thus also render the shade more accessible.

The invention consists in a hanging-lamp harp or frame detachably connected to a suspending ring or crown by means of spring-clasps, said frame having fixed to it a shade-supporting ring, which moves with the harp and carries along with it the shade when it (the said harp) is removed or detached, all and severally as hereinafter specified and claimed.

In the accompanying drawings, in the several figures of which like parts are similarly designated, Figure 1 is a front view, with the rings and shade in section, of a hanging-lamp frame embodying my invention. Fig. 2 is an edge or side view on a larger scale of one of the clasps and parts of the harp and crown. Fig. 3 is a similar view of the clasp and rings, the clasp being in the unlocked position under force, and Fig. 4 is a partly sectional elevation of part of the upper end of the harp.

The harp or frame *a* is or may be of any approved design, and its upper end is provided with the lateral projections or hooks *b*, the vertical tongues *c*, in which are the holes *d*, and the vertical arms *e*. The upper ends of these arms have affixed to them the annular shade-support *f*, which support, in the present instance, is a frusto-conical or beveled ring; but its shape will be adapted to the form of shade to be used. The crown or harp supporting ring *g* of the old form of lamps may have, and in the present instance has, a downwardly-projecting lip, *h*, to cover the top edge of the shade, and from the flange *i* of this crown depend spring-clasps *j*, one for each limb of the harp, said clasps being affixed to the said crown. These clasps are composed of a member, *l*, having a laterally-projecting lug, *m*, slotted

transversely, a transversely-slotted angle, *n*, in the vertical plane of the lug *m*, and a laterally-projecting terminal hook, *o*, and on the opposite side of the member *l* is a spring member, *p*, fixed to the member *l* at one end, as by a rivet, *q*, and having the terminal finger-piece *r* and a pin, *s*, just above such finger-piece and passing through a hole, *t*, in the member *l* between the lug *m* and angle *n*, to engage the hole *d* in the tongue *c* of the harp when said tongue is passed up through the slots in the angle *n* and lug *m*, to thereby engage the harp with the crown to suspend it therefrom.

I do not limit my invention to the mere details of construction herein set forth, as they may be varied within the functions of the parts enumerated.

The operation is as follows: The shade is placed in position upon its ring *f*, and the spring-members *p* of the clasps having been drawn away from the members *l*, as indicated in Fig. 3, so as to draw back the pins *s*, the tongues *c* of the harp are pushed through the slotted angles *n* and lugs *m* (which thus form sockets for them) until the shoulders *u* abut against said angles, when the holes *d* in the tongues will be in line with the pins *s*. Now, the springs *p* being released, the pins *s* will be forced through the holes *t* and *d* into engagement with the tongues, and thereby securely connect the harp and its ring or crown, and the force of the spring is in the direction of the clasp-members *l*, so as to normally keep the two in such engagement. The harp is released most easily and readily by engaging the hooks or projections *b* of the harp, say, with the middle fingers of the hands, and pressing back the springs with the thumbs, when the harp can be removed downwardly and carries with it the shade. The hooks *o* serve as hand or finger holds to support the lamp and harp when attaching or detaching the harp. The harp is replaced as before described.

In an earlier application for Letters Patent filed by me August 18, 1883, Serial No. 104,271, I have shown an extension hanging lamp in which a harp is detachably connected to the shade-ring, but does not carry the shade and shade-ring with it, and the said shade-ring, with the harp and its appurtenances, is de-

tachably connected with and movable from the weight to an extent commensurate with the length of the supporting-chain. The present invention differs from that, in that the shade
 5 and its ring are both carried, with the harp, away from the crown, when the said harp and crown are disconnected, and in this respect the invention differs from any heretofore made. I am aware that it is not new to attach the
 10 shade-holder to the harp so that it becomes part thereof; but my invention consists in combining such a harp with a crown, from which it is readily detachable.

As is obvious, the invention herein is readily applicable in my lamp hereinbefore referred to.

By the construction herein the parts of the lamp are very accessible, and so without detaching the hanging or suspending parts.

20 What I claim is—

1. The combination, with the hanging-lamp frame or harp, of spring-clasps detachably engaging the same with the supporting member, substantially as described.

25 2. The harp of a hanging lamp having tongues, combined with a suspending-ring, and spring-clasps depending therefrom and detachably engaging the said tongues, substantially as and for the purpose described.

30 3. The harp provided with vertical tongues having holes therein, combined with a ring and spring-clasps depending therefrom, and having sockets to receive said tongues and pins

to engage their holes, substantially as and for the purpose described.

4. The harp provided with perforated vertical tongues and shoulders beneath them, combined with a ring and spring-clasps depending therefrom, sockets in said clasps to receive the tongues under limitation of the
 40 shoulders, and spring-pins to engage said tongues to connect the harp and ring, substantially as described.

5. The combination, with the crown and its depending clasps *j*, having the hooks *o*, substantially as set forth, of a detachable harp carrying the shade-ring and engaged by such clasps, and provided with the hooks *b*, substantially as and for the purpose described.

6. The crown and its depending clasps *j*,
 50 substantially as set forth, combined with a detachable harp carrying the shade-ring, as and for the purpose described.

7. The harp *a*, provided with the shade-supporting ring *f*, combined with the crown and
 55 detaching connections, substantially as set forth, to permit the detaching of the harp, with its connected shade-supporting ring and shade thereon, substantially as shown and described.

In testimony whereof I have hereunto set my hand this 16th day of October, A. D. 1883.

HERMAN F. JAEGER.

Witnesses:

EMIL JAEGER,

CHAS. M. LAVAL.