

No. 874,071.

PATENTED DEC. 17, 1907

G. L. HOLDEN.  
RANGE BOILER STAND.  
APPLICATION FILED SEPT. 10, 1906.

Fig. 1.

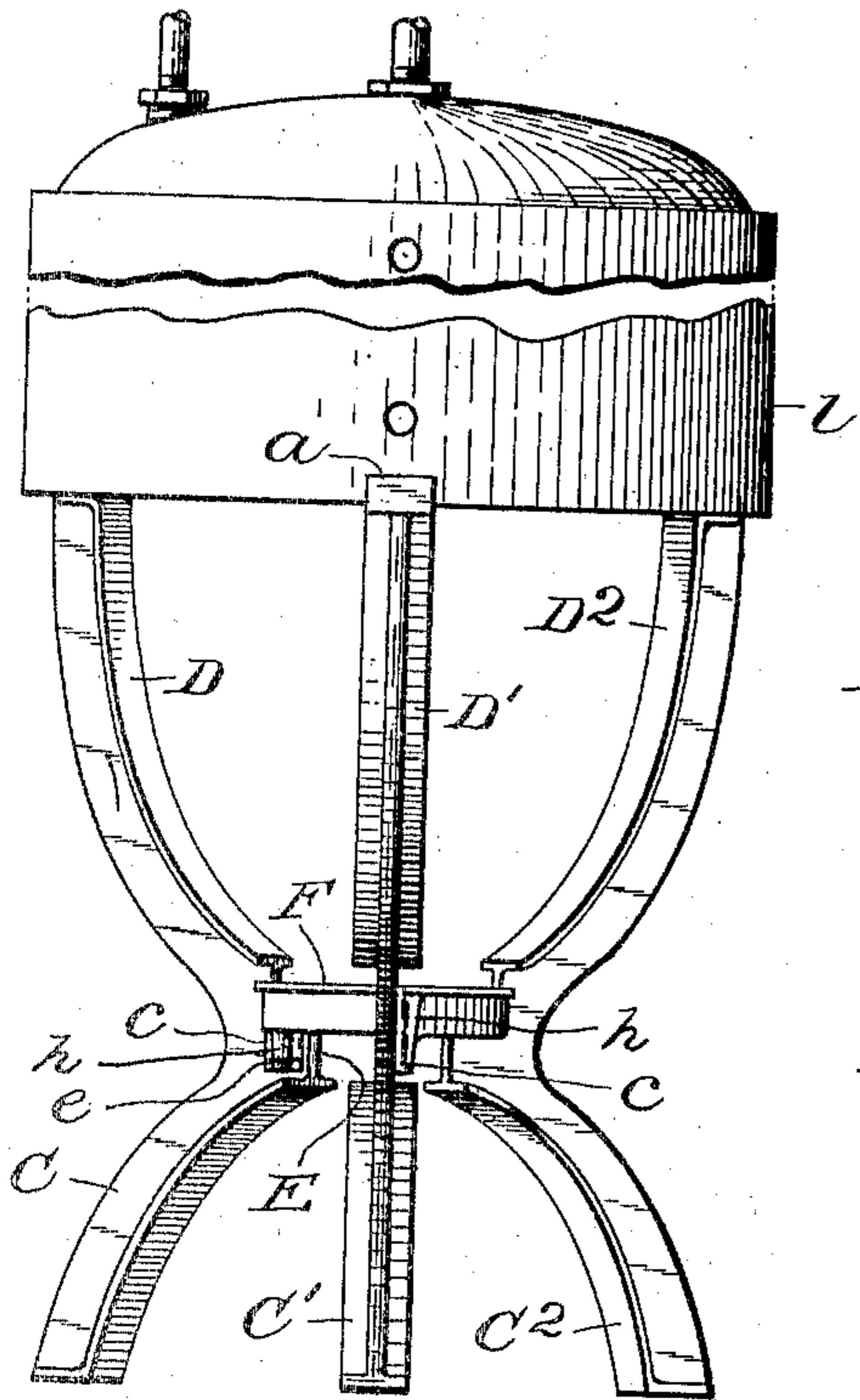


Fig. 2.

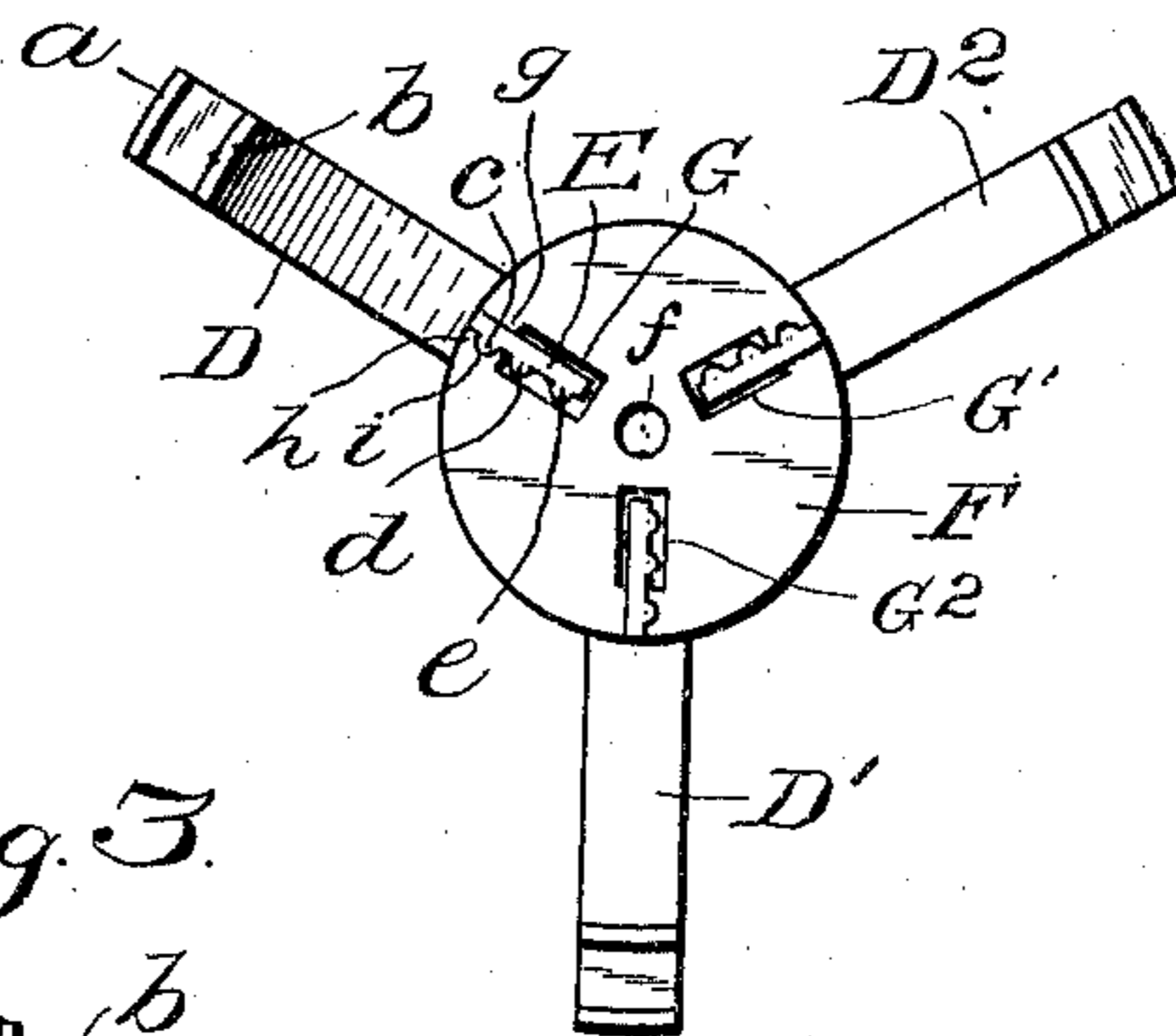


Fig. 3.



Fig. 4.

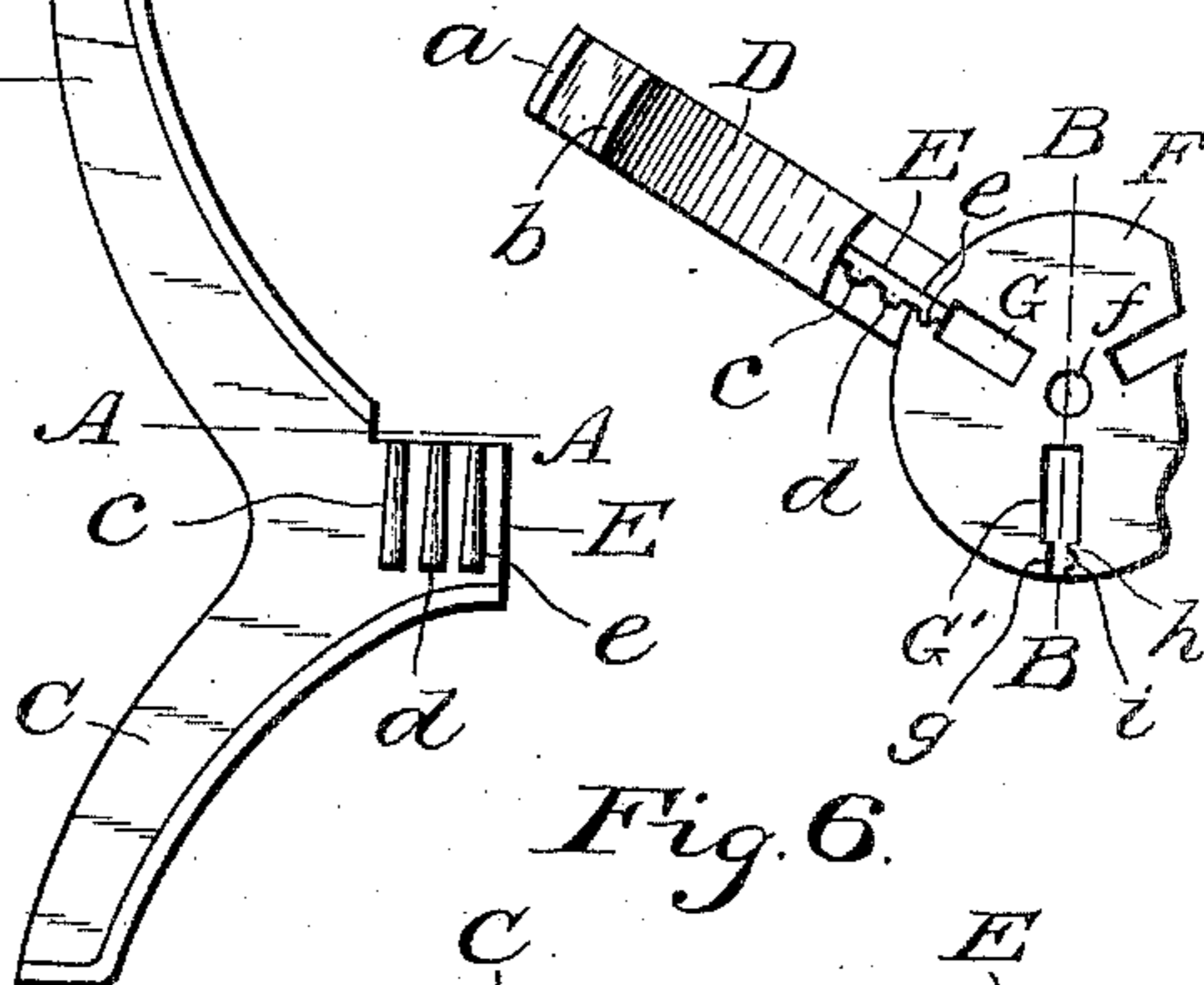


Fig. 6.

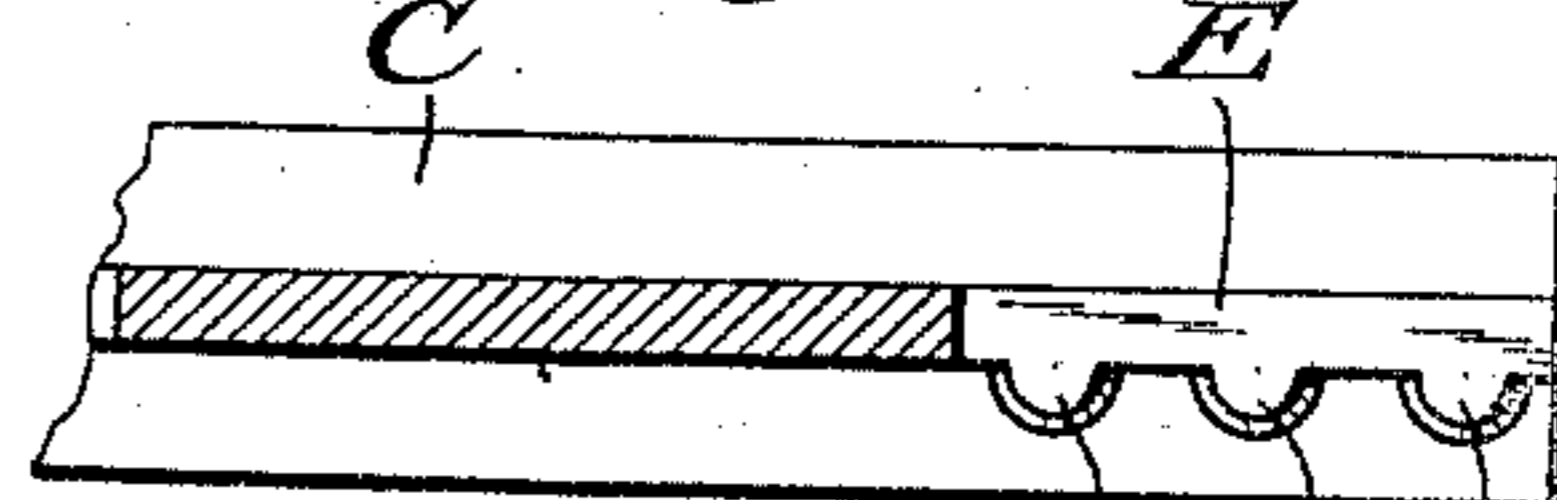


Fig. 7.

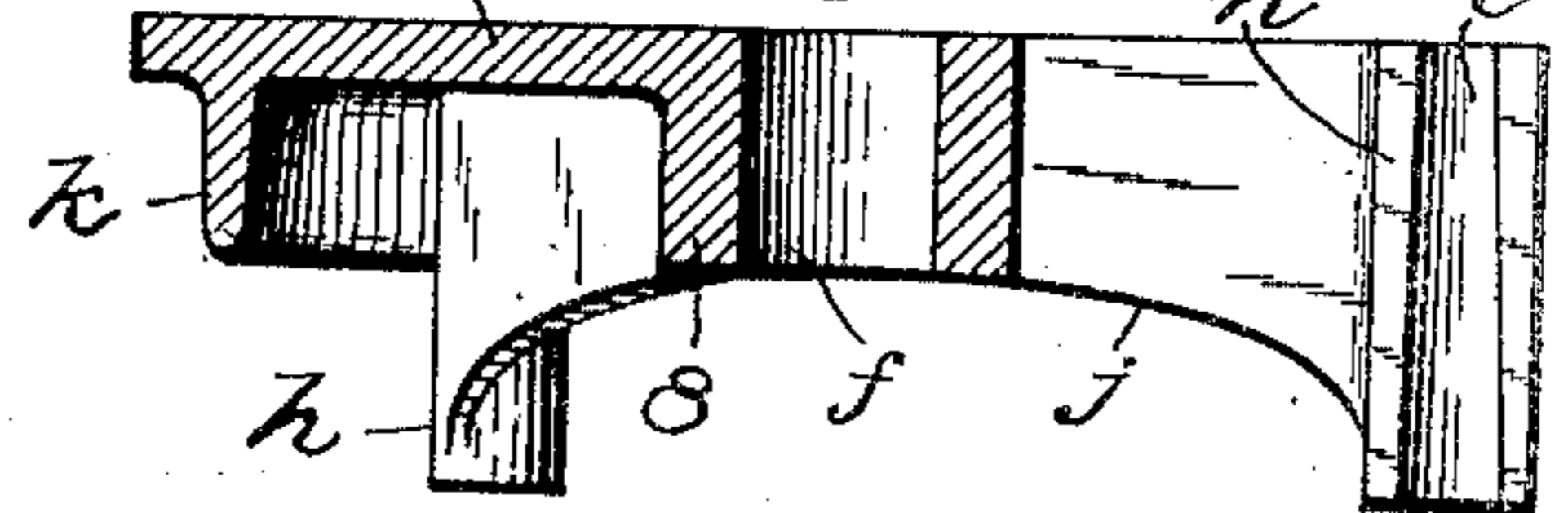
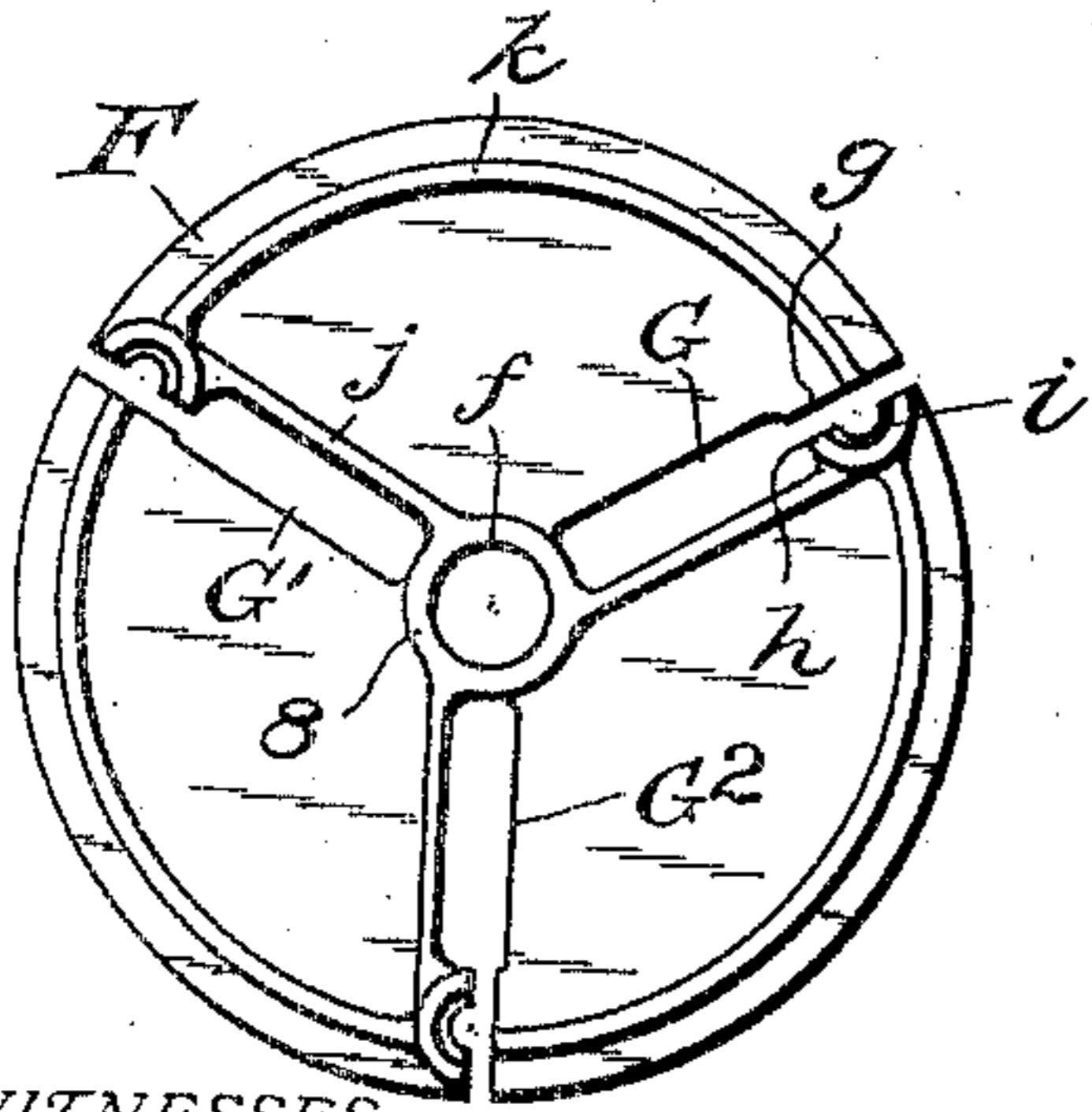


Fig. 5.



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# UNITED STATES PATENT OFFICE.

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## RANGE-BOILER STAND.

No. 874,071.

Specification of Letters Patent.

Patented Dec. 17, 1907.

Application filed September 10, 1906. Serial No. 333,911.

*To all whom it may concern:*

Be it known that I, CHARLES L. HOLDEN, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented new and useful Improvements in Range-Boiler Stands; and I do declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to stands for supporting upright range boilers or similar vessels which may be intended to stand on end, the invention having reference particularly to stands of this character that are adapted to be adjusted to suit different diameters of boilers or tanks.

Objects of the invention are, first, to provide a stand of the above-mentioned character which may be instantly adjusted, when being set up, to fit any one of the three different sizes of boilers commonly in use, and also to be adapted to be constructed with a view to accommodating various other sizes of boilers; second, to provide a stand that may be constructed of the minimum number of simple parts, and without requiring small detached parts that might be liable to derangement or to be misplaced when disconnected; and, third, to provide a stand that may be shipped, knocked down in order to avoid breakages and expensive boxing or crating.

With the above-mentioned and minor objects in view, the invention consists in a stand comprising a plurality of combined legs and arms provided with locking devices, and a slotted connector having locking devices, and adapted to inter-lock with the combined legs and arms for securing all together detachably, and with the arms separated at various distances apart; and the invention consists further in the novel parts and the combinations and arrangements of parts as hereinafter particularly described and claimed.

Referring to the drawings, Figure 1 is a view in elevation of the improved stand with a range boiler thereon partly broken away; Fig. 2, a top plan view of the stand arranged for the minimum size of boiler; Fig. 3, a side elevation of one of the combined legs and arms; Fig. 4, a fragmentary top plan of the stand showing one of the

combined leg and arm members attached to the connector so as to accommodate the maximum size of boiler; Fig. 5, an inverted plan view of the connector; Fig. 6, a horizontal sectional view on the line A—A in Fig. 3; and, Fig. 7, a vertical sectional view of the connector on the line B—B in Fig. 4.

Similar reference characters throughout the drawings designate corresponding elements or features of construction.

In practically carrying out the invention, the stand is composed preferably of four castings, there being three supporting legs, C, C', C<sup>2</sup>, and three arms, D, D', D<sup>2</sup>, on which to support the boiler or similar vessel, a leg and an arm being cast together as one piece combining the two members, the top of each arm being provided with a lip *a* at the outer side thereof, and a relatively shorter lip *b* at the inner side thereof, both lips projecting upwardly to guide the boiler. Each combined leg and arm piece is provided with an extension E, on one side of which a suitable number of tapering keys, as *c*, *d* and *e*, are cast and projecting laterally, the keys being vertical in use and less in diameter at their upper ends than at their lower ends. For practical purposes it may be stated that these keys are spaced at proper distances apart to suit the requirements of the trade. The legs and the arms may be made in various fanciful shapes and the end of the extension E of each leg and arm member reaches somewhat to one side of the plane of the end portions of the leg and arm members so that when the stand is connected together and supporting a boiler, these extensions will reach nearly to the longitudinal axis of the boiler.

The connector F comprises a plate, preferably circular in form which has a central aperture *f* therein, and a strengthening ring 8 at the under side thereof centrally of the plate. In the plate are three slots G, G', G<sup>2</sup> extending inwardly from the periphery of the plate, and in each slot, near the periphery of the plate, are two opposing projections *g* and *h*, the projection *h* having a tapering keyway *i* therein, the keyway being greater in diameter at its lower end than at its upper end at the top of the plate so that either one of the slots may receive the extension E and the keyway may receive either one of the keys *c*, *d* or *e*, for locking the extension part to the connector. It will be observed that the slots are arranged radially in the con-

nector plate and strengthening ribs *j* extend from the ring 8 to the projections *h*, and also ribs *k* extend from the projections *g* to the projections *h*, the ribs *k* extending near the 5 periphery of the plate at the under side thereof.

In practical use the three combined leg and arm pieces are to be set upright and then the connector is to be attached to the extensions 10 E of the pieces so as to connect the parts together securely, and in case that the maximum size of boiler is to be supported, the keys *e* will be placed in the keyways *i*, while for the minimum size of boiler the keys *c* should 15 be placed in the keyways, and likewise for the medium size of boiler, the keys *d* will be placed in the keyways and then the boiler, as *l*, may be placed upright on tops of the arms as in Fig. 1, with the projecting edge of the 20 shell of the boiler between the lips *a* and *b*.

Having thus described the invention, what is claimed as new is—

1. A stand comprising a plurality of combined leg-and-arm members each provided 25 with a lateral extension having a plurality of tapering locking means at one side thereof, and a connector comprising a plate having a plurality of openings therein to receive the

extensions, each opening having tapering locking means therein at one side thereof co- 30 operating with the locking means of the extensions.

2. A stand comprising a plurality of combined leg-and-arm members each provided with a lateral extension having a plurality of 35 tapering keys on one side thereof, and a connector comprising a plate having a plurality of openings therein to receive the extensions of the members, each opening having a tapering keyway therein to receive either one of 40 said keys.

3. A range boiler stand comprising a plate having openings therein, arms having extensions adjustable in the openings towards or 45 from the center of the plate, supporting legs for the arms, and cooperating locking means at sides of the extensions and the openings for adjustably securing the extensions in the openings at different distances from the center of the plate. 50

In testimony whereof, I affix my signature in presence of two witnesses.

CHARLES L. HOLDEN

Witnesses:

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