

No. 768,418.

PATENTED AUG. 23, 1904.

O. ADAMS.  
LOCK FOR SCUTTLE COVERS.

APPLICATION FILED NOV. 20, 1903.

NO MODEL.

Fig. 1.

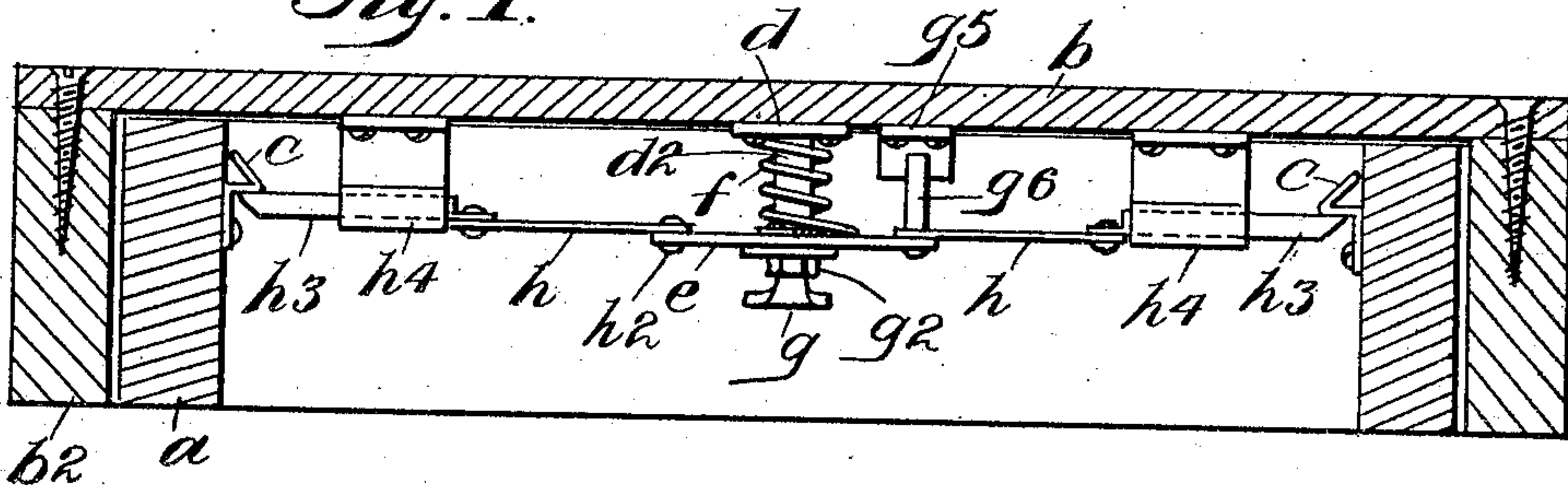


Fig. 2.

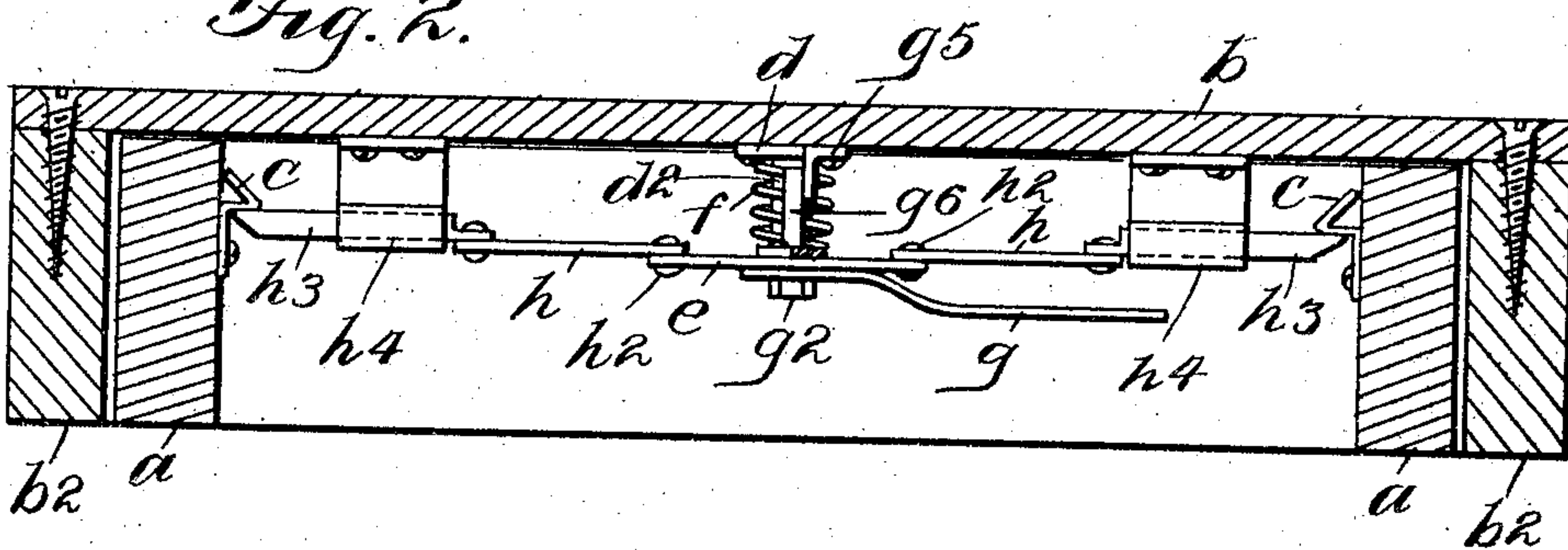
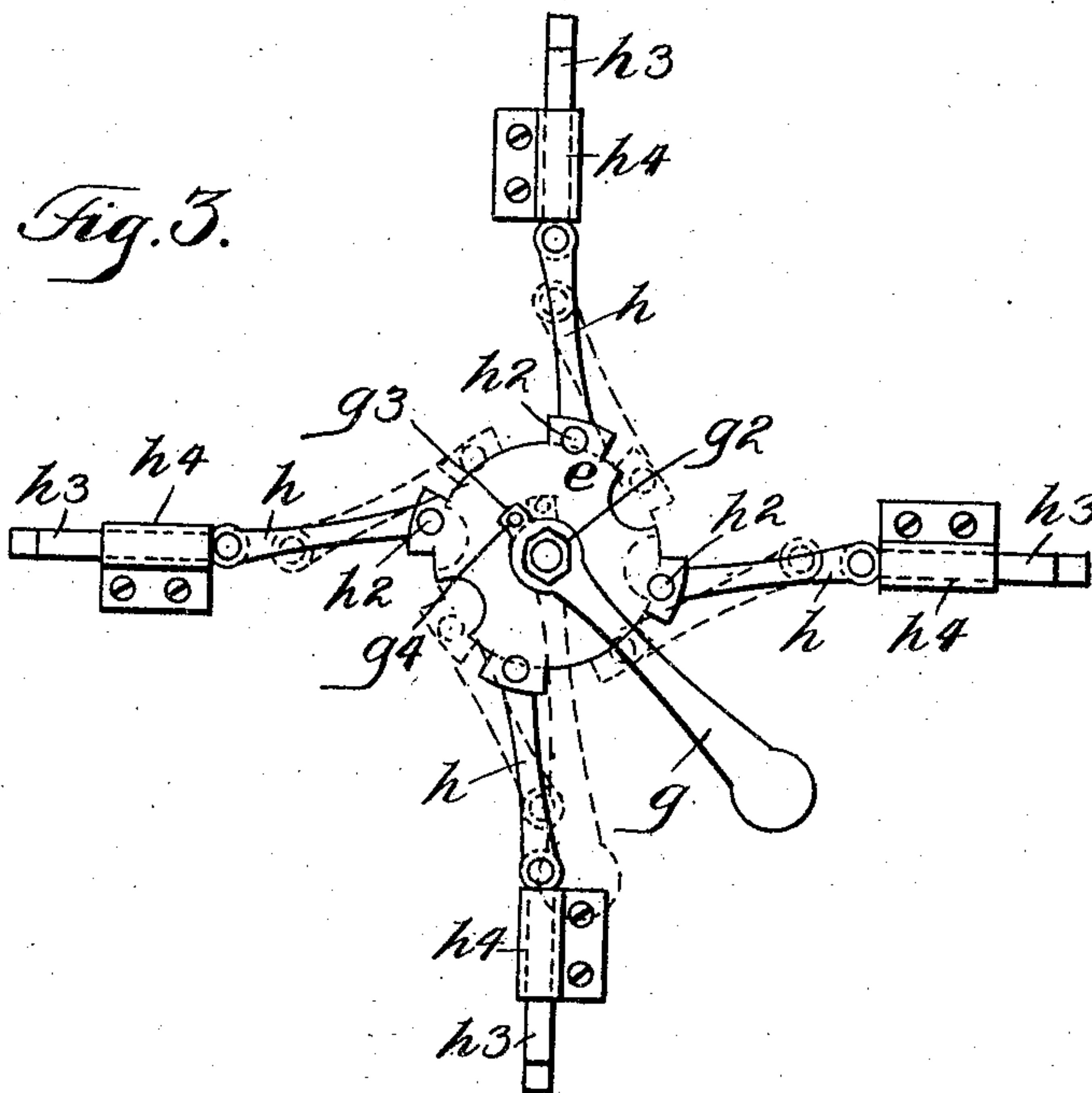


Fig. 3.



WITNESSES

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## UNITED STATES PATENT OFFICE.

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## LOCK FOR SCUTTLE-COVERS.

SPECIFICATION forming part of Letters Patent No. 768,418, dated August 23, 1904.

Application filed November 20, 1903. Serial No. 181,924. (No model.)

*To all whom it may concern:*

Be it known that I, OTTO ADAMS, a citizen of the United States, residing at Richmond Hill, in the county of Queens and State of New York, have invented certain new and useful Improvements in Locks for Scuttle-Covers, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to scuttles, and particularly to covers thereof; and the object of the invention is to provide improved means for locking or securing a scuttle-cover in position, whereby the said cover can only be removed from beneath.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a transverse section of a scuttle and cover and showing my improved lock for holding the cover in position; Fig. 2, a transverse section at right angles to that of Fig. 1, and Fig. 3 a bottom plan view of the locking mechanism detached.

In the drawings forming part of this specification I have shown at *a* the framework of an ordinary scuttle-opening, and at *b* a cover therefor, and said cover is provided with a rim *b*<sup>2</sup>, which incloses the scuttle-opening frame *a* when the said cover is in position.

The frame *a* of the scuttle-opening is provided centrally of its sides with locking-keepers *c*, and secured to the bottom side of the cover *b*, centrally thereof, is a plate *d*, having a downwardly-directed pin *d*<sup>2</sup>, on which is mounted a rotatable disk *e*, between which and the plate *d* is a spiral spring *f*, through which the pin *d*<sup>2</sup> passes and one end of which is secured to the plate *d* and the other to the disk *e*.

A crank-arm *g* is mounted on the lower end of the pin *d*<sup>2</sup> and held in place by a nut *g*<sup>2</sup>, and the head of this arm, through which the pin *d*<sup>2</sup> passes, is preferably provided with a

lug or projection *g*<sup>3</sup>, through which is passed a pin *g*<sup>4</sup>, which also passes into the disk *e*.

Secured to the bottom of the cover *b* adjacent to the plate *d* is a downwardly-directed stop *g*<sup>5</sup>, and the disk *e* is provided with an upwardly-directed pin *g*<sup>6</sup>, which operates in connection therewith to limit the rotation of the disk *e* when the latter is turned by the spring *f*.

The disk *e* is also provided at oppositely-arranged points with links *h*, that are pivoted thereto, as shown at *h*<sup>2</sup>, and pivoted to each of these links is a bolt *h*<sup>3</sup>, and these bolts are mounted in and free to slide in keepers *h*<sup>4</sup>, secured to and suspended from the cover *b* of the scuttle. It will be observed that the connections of the links *h* with the disk *e* are so made that said connections are not in direct radial line with said bolts, but are at one side of such line.

The keepers *c* are V-shaped in form, and when the cover *b* of the scuttle is dropped into position the ends of the bolts *h*<sup>3</sup> strike thereon and are forced inwardly, and the cover *b* drops into the position shown in Figs. 1 and 2, and the spring *f* throws the bolts *h*<sup>3</sup> outwardly, in which position they engage with the keepers *c*, as clearly shown in Figs. 1 and 2. In order to release the cover *b*, so that it may be removed from the scuttle-frame *a*, the crank-arm *g* is turned to the right, and this operation draws the bolts *h*<sup>3</sup> inwardly, so that they are disengaged from the keepers *c*, and the cover *b* may be easily removed, as will be readily understood.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A scuttle frame or casing, the opposite sides of which are provided with locking-keepers, a cover provided centrally with a pin, a rotatable disk mounted on said pin, a spiral spring placed on said pin and one end of which is secured to the cover and the other to said disk, means for turning said disk in opposition to said spring, guides secured to said cover, locking-bolts mounted in said guides and adapted to engage said keepers,

and links connecting said bolts with said disk, the connection between the bolts and disk being at one side of radial lines passing through said disk and said bolts, substantially as shown  
5 and described.

In testimony that I claim the foregoing as my invention I have signed my name, in pres-

ence of the subscribing witnesses, this 19th day of November, 1903.

OTTO ADAMS.

Witnesses:

T. A. STEWART,  
C. E. MULREANY.