

No. 788,371.

PATENTED APR. 25, 1905.

L. PEARCE.
RAPID RELEASE SASH FASTENER.
APPLICATION FILED JUNE 24, 1904.

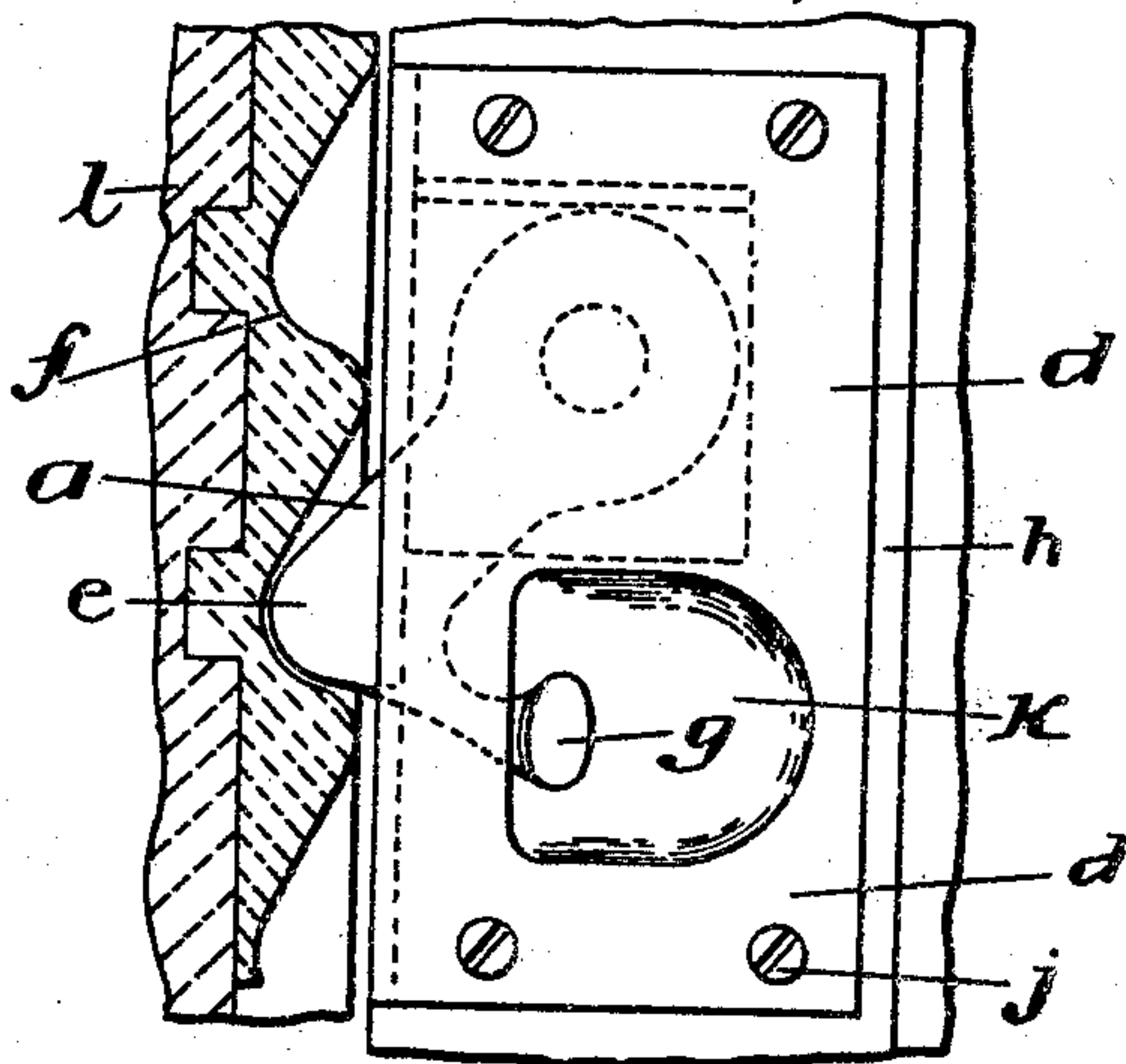


Fig. 1.

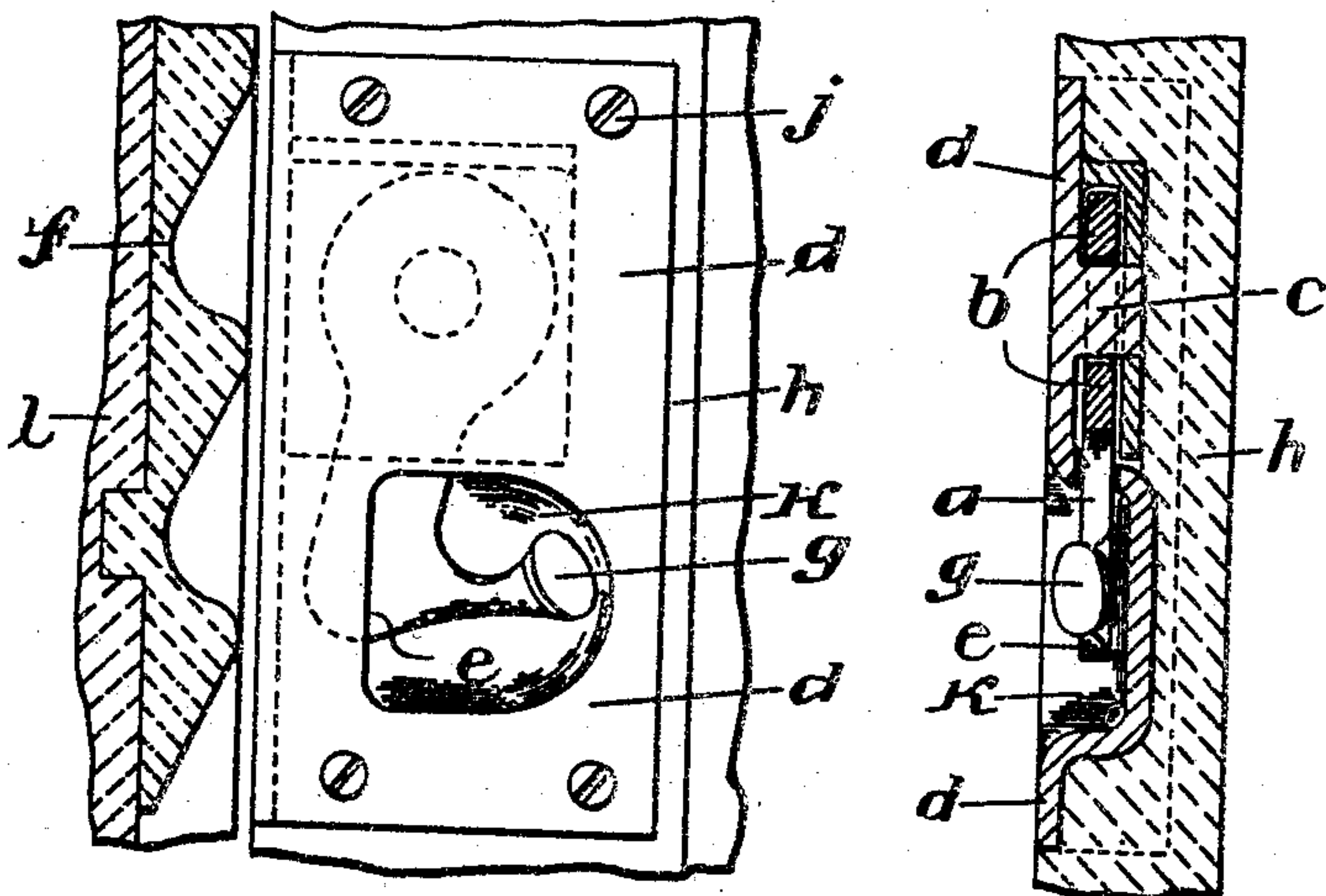


Fig. 2.

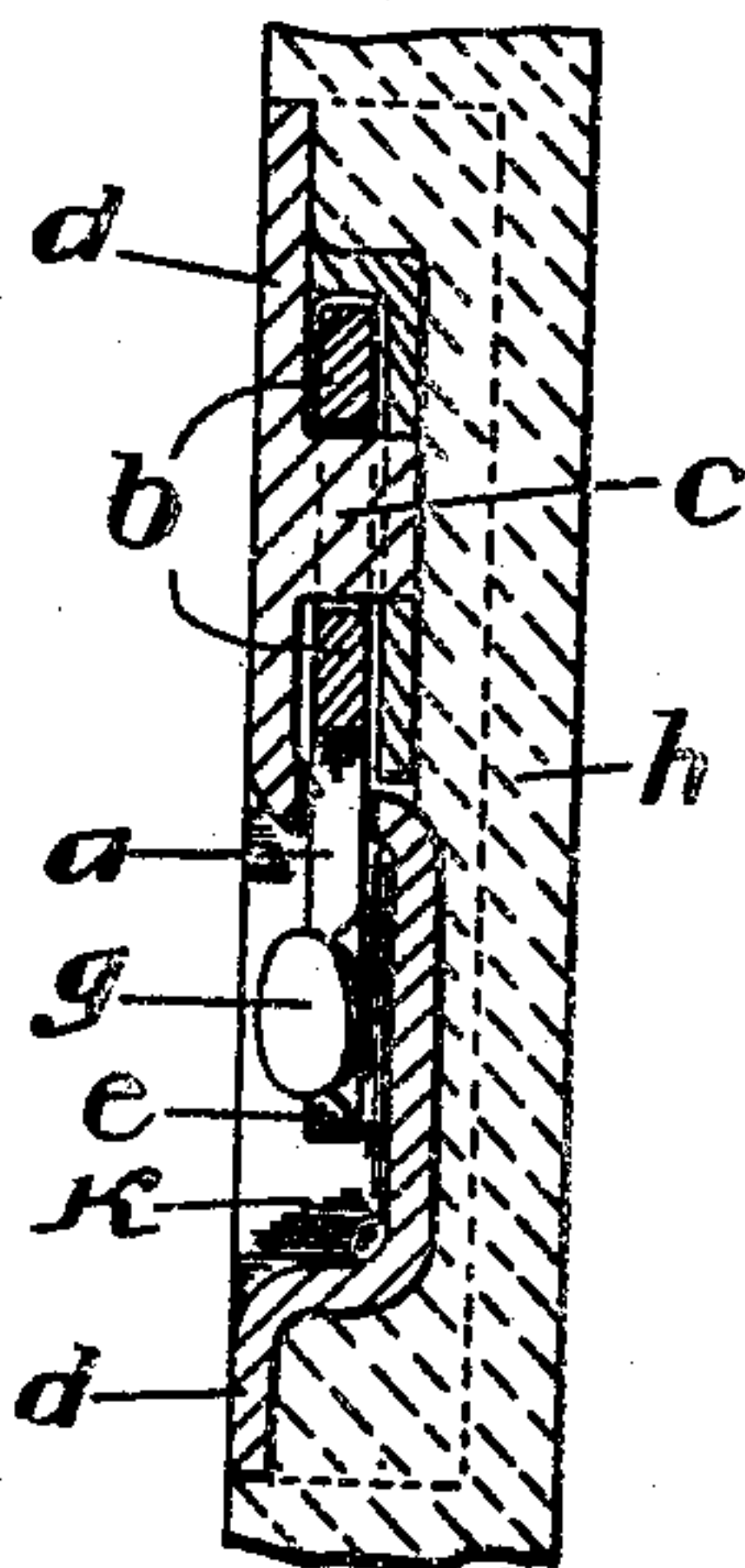


Fig. 3.

Witnesses,

[Signature]

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Inventor

Louis Pearce

By *[Signature]*
James L. Noris

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UNITED STATES PATENT OFFICE.

LOUIS PEARCE, OF FREMANTLE, WESTERN AUSTRALIA, AUSTRALIA.

RAPID-RELEASE SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 78 ,371, dated April 25, 1905.

Application filed June 24, 1904. Serial No. 213,995.

To all whom it may concern:

Be it known that I, LOUIS PEARCE, a subject of the King of Great Britain, residing at Fremantle, Western Australia, Commonwealth of Australia, have invented certain new and useful Improvements in Rapid-Release Sash-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention has been designed to provide an effective and reliable and rapid-release sash-fastener principally for use in railway-carriages; but it is also adapted for tram-car and all other windows and shutters.

The invention consists in the employment of a drop-pawl pivoted at its top to a spindle formed integrally with a metal case in which the pawl works. The case is made with a cupped formation to allow of access being had to a press-button piece for operating and bringing the pawl into action. A rack-bar of a curved or serrated formation is recessed into the inside face of the window-frame adjacent to the pawl. This rack-bar receives the heel of the pawl, and so retains the window in any desired position, the weight of the window acting as a further means for its own effective retention.

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

Figure 1 is a front elevation of the fastener as seen in its position when in action. Fig. 2 is a similar view, but showing the drop-pawl in its out-of-action position. Fig. 3 is a vertical sectional view of same.

In the drawings the drop-pawl, as *a*, is loosely hung at its enlarged end *b* by the fixed pivot *c* and which latter is made integral with the case *d*, hereinafter referred to. The pawl is formed with the heel or snug piece *e*, which engages with a rack-bar *f*, and is further provided with the press-button piece *g*, made as shown and so as to render the pawl easy of being brought into action and placed

in its rack-bar *f*. The pawl is suitably held within the case *d*, and which latter is fitted to the inner side of the window-sash *h* and held by the screws *j*, a portion of such sash being first cut away to allow of the case *d* being fitted in flush. The case *d* is formed with the cup *k* large enough to allow of the press-piece *g* being easy of access. A suitable opening is made in this cup to allow of the free working of the heel and button. The rack-bar *f* above mentioned is let into the jamb or frame *l* and having its outer surface to be curved of a contour agreeable with the heel end of *e* of the pawl.

The case *d* has a cup *k* formed therein by bending the metal and located below and to one side of the center of the fixed pivot *c*, as clearly illustrated by Fig. 3, a slot *k'* being formed in the upper portion of the cup to accommodate the swing or movement of the pawl *a*. The press-piece or head *g* of the pawl is deflected at an outward angle for convenience in grasping or engaging the same to operate the pawl.

One of the main advantages of the present construction of sash-fastener is that no springs or analogous devices are required to assist in the operation of the pawl, and, furthermore, from a standpoint of advantage in construction the pivot *c* and case *d* are integrally formed and set in operative position with respect to the said pawl by simply inserting the pivot *c* through the pawl and securing all the parts of the pawl organization in place by applying the screws *j*.

It will be seen that to retain the window, as *h*, in the desired position it is raised by one hand, while by the button *g* the heel of the drop-pawl is made to snugly rest in any one of the grooves of the rack-bar *f*. The window is thereby securely held in such position. In order to further adjust or to lower the window, it is slightly raised, and thereby concurrently releasing the pawl and allowing it to drop by gravity to a somewhat vertical position, and thereby freeing the window.

I claim—

1. A sash-fastener, having a case formed with a lower cup and an upper integral trunnion, the case also being formed with a slot

between the cup and trunnion, a drop-pawl having its upper portion held on the trunnion and its lower extremity exposed for operative engagement by the cup, and means with
5 which the said pawl engages.

2. A sash-fastener, consisting of engaging means connected to a sash-frame, a case having an upper inwardly-extending trunnion, a lower cup, and a slot between the cup
10 and trunnion, a pawl having its upper portion inclosed by the case and penetrated by the trunnion, the lower portion of the pawl being movable through the slot and having

an operative button-piece located in the cup and deflected outwardly, the pawl being 15 formed with a heel-piece, and a rack-bar carried by a window-frame and having curved teeth for engagement by the heel-piece.

In testimony that I claim the foregoing as my invention I have signed my name in 20 presence of two subscribing witnesses.

LOUIS PEARCE.

Witnesses:

RICHD. SPARROW,
FRED WALTHAM.