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PATENTED DEC. 31, 1907.

H. B. MACKINTOSH.
SEAL LOCK.

APPLICATION FILED NOV. 1, 1906.

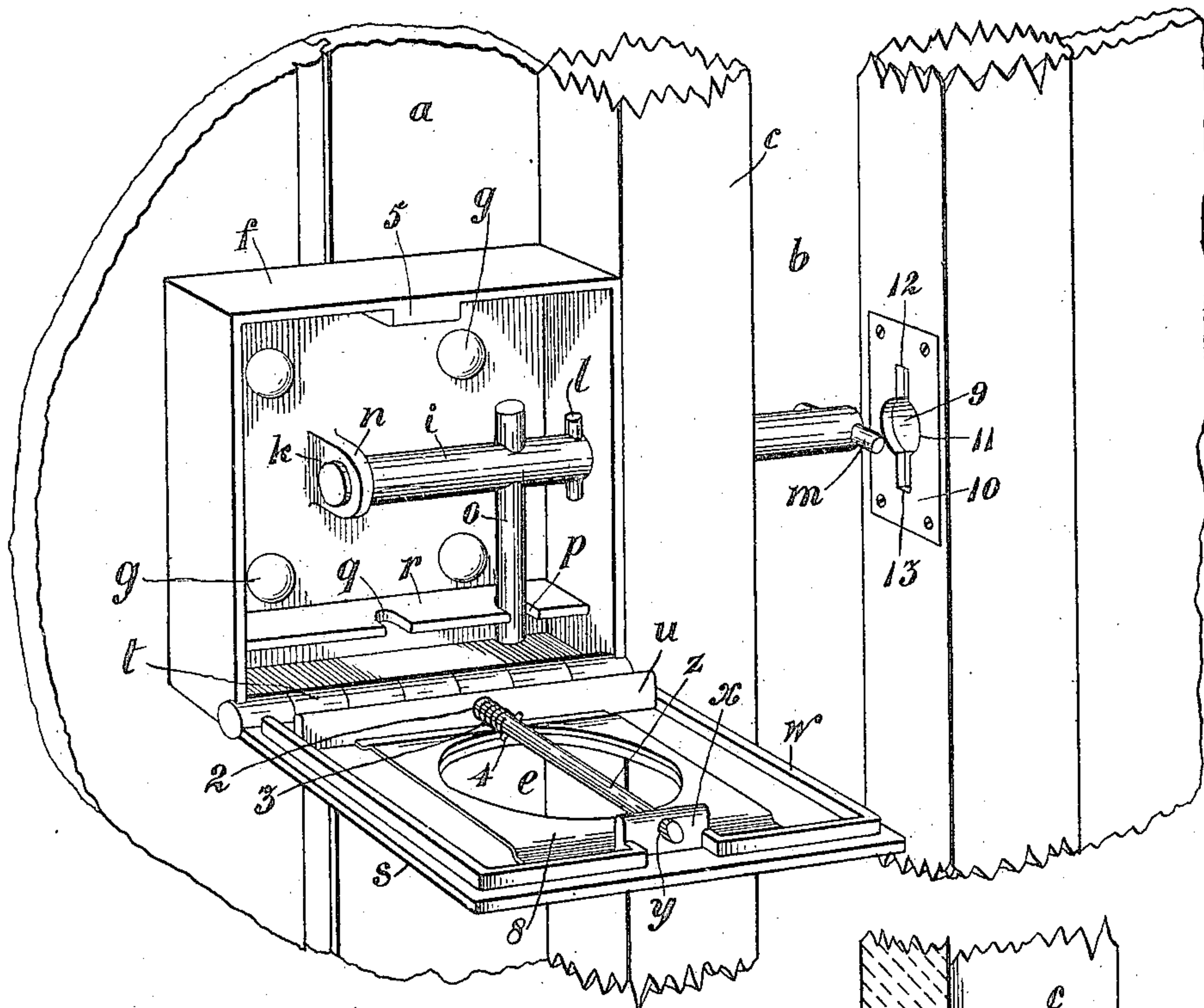


Fig. 1

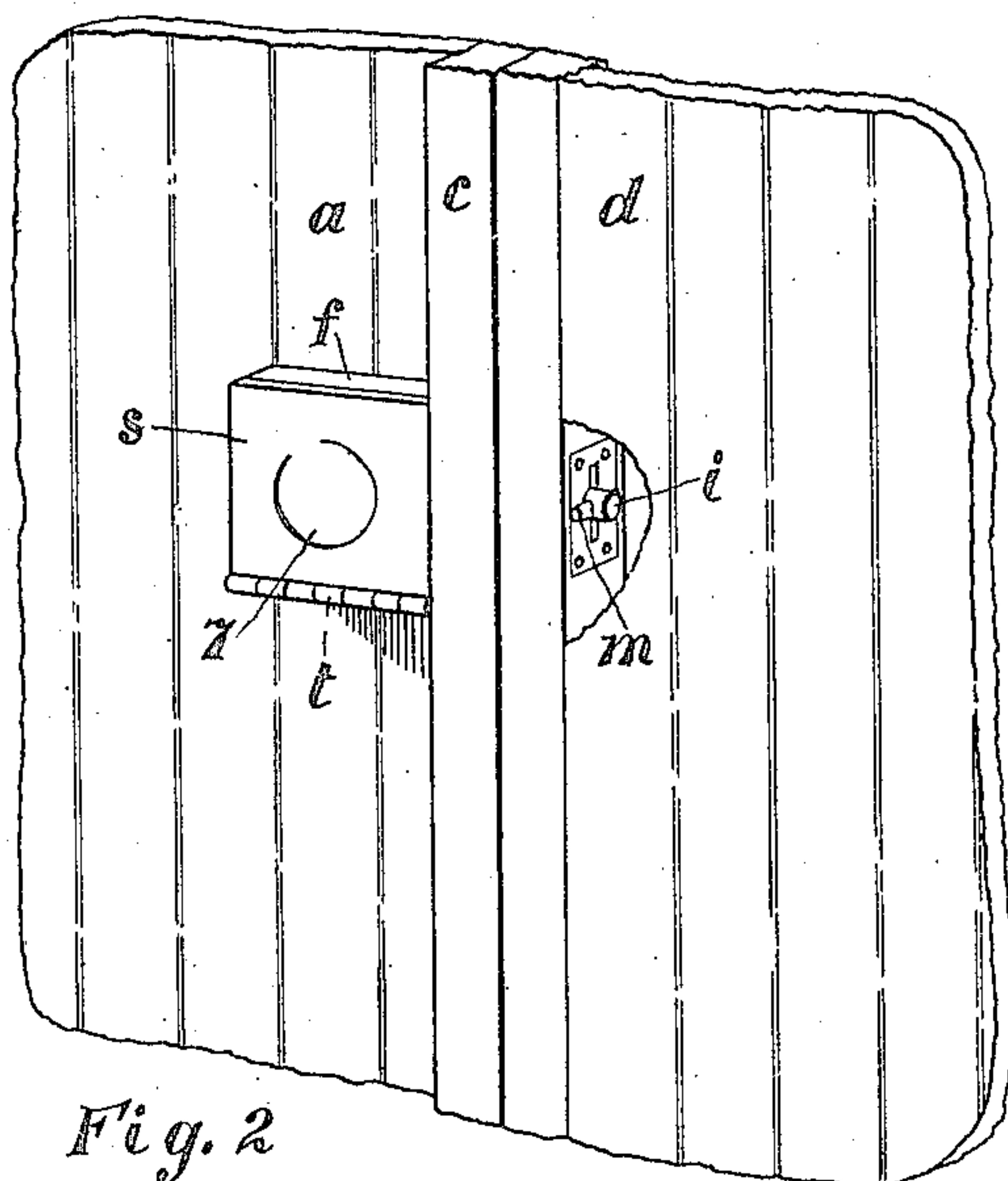
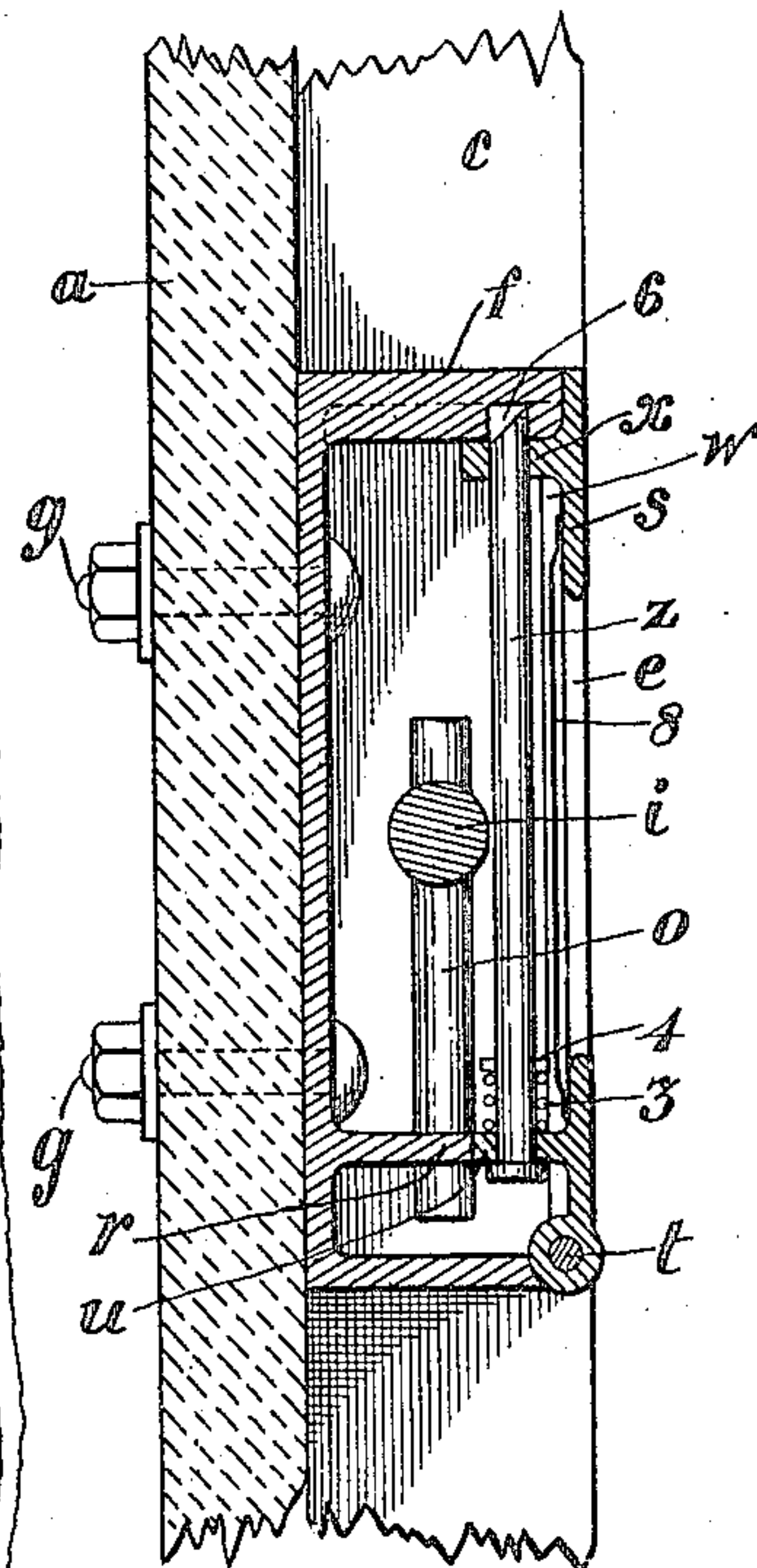


Fig. 2



UNITED STATES PATENT OFFICE.

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SEAL-LOCK.

No. 875,087.

Specification of Letters Patent.

Patented Dec. 31, 1907.

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To all whom it may concern:

Be it known that I, HENRY BURTON MACKINTOSH, a subject of the King of Great Britain, residing at 15 South Washington street, in the town of Rossland, Province of British Columbia, Canada, have invented certain new and useful Improvements in Seal-Locks, of which the following is a specification.

10 This invention relates to improvements in seal locks and the object of the invention is particularly to devise a secure means of sealing the doors of railway freight cars and so arrange the seal that it may be
15 used with a registered design or trade mark and at the same time provide a simple and inexpensive mechanism, and it consists essentially in the novel construction and arrangement of parts whereby the draw-bar is suitably incased and arranged to the
20 rear of a destructible covering, the various parts being described in detail in the present specification and shown in the drawings that form part of the same.

25 In the drawings, Figure 1 is an enlarged perspective view of the seal lock applied to a freight car door and showing the form on the casing in its open position. Fig. 2 is a perspective view of the seal lock applied to the
30 door of a freight car in its locked position showing a part of the door broken away. Fig. 3 is a vertical and sectional view midway through the center of the draw-bar casing.

Like letters of reference indicate corresponding parts in each figure.

Referring to the drawings, *a* is the wall of a car and *b* the door opening and *c* a post forming the side of said opening.

40 *d* is the car door suitably arranged on a trolley or other sliding device and closing up to the post *c*.

45 *f* is the case securely fastened to the car wall *a* by the bolts *g* inserted through suitable orifices in the back of said casing the said bolts extending through the wall and one side of said case abutting the inner edge of the post *c*.

50 *n* is a lug rigidly secured to the back inside the case and projecting outwardly from said back and having an orifice *k* therethrough.

55 *i* is the draw-bar inserted, at one end, in the orifice *k* in the lug *n* and, at the other end, extending through a suitable hole in the side of the case *f* and through a hole in the post *c* registering with said hole in the side of

the case and extending beyond said post. The draw-bar *i* beyond the post has a T shaped end formed by the rod *m* extending therethrough and therewith.

60 *l* is a stop in the form of a pin inserted through the draw-bar *i* inside the case *f* and at the extreme outer position of the draw-bar *i* abutting the inner wall of the side of said case.

65 *o* is the operating bar firmly secured to the draw-bar and rigid therewith and extending laterally therefrom. It will be seen that, by means of the operating bar *o*, the draw-bar *i* may be turned in the bearings formed
70 by the orifice *k* and the hole through the post *c* and in this manner change the position of the T shaped head *m*, that is, move the said T shaped end from its vertical to its horizontal position and vice-versa. *r* is a
75 plate rigidly secured within the case *f* to the side thereof in proximity to the lower side thereof and having the slots *p* and *q* therein arranged from the outer edge, adapted to receive the lower end of the operating bar *o*
80 and thus securely lock the said draw-bar to its inner or outer position, as the case may be.

85 *s* is the cover or lid of the case secured to the lower side of the said case by the hinges *t* and having a central opening *e*. *u* is a guard rigidly secured to the inner face of the cover *s* towards the lower end thereof and in the shut position of the cover closing in the open ends of the slots *p* and *q*, thus locking
90 the operating bar *o* securely in one or other of the slots *p* and *q* in the plate *r*, when the said draw-bar is shut into said case by said cover. *w* is a flange projecting from the inner face of the cover in proximity to the edge
95 thereof, the said flange being centrally slotted or cut away at the top end of said cover. In the closed position of the cover the said flange extends into said case so that it is impossible to insert sharp instruments of any
100 kind between the outer edges of said casing and the cover *s*. *x* is a bracket extending from the inner face of the cover in the space formed by the said central slot in the flange
105 *w* and having the central orifice *y* therethrough. *z* is a bolt sliding in the said orifice *y* and having a beveled upper end from the inner side thereof. The bolt *z* extends
110 downwardly and across the opening *e* and the cover *s* into the hole 2 in the guard *u*. 3 is a spiral spring encircling the bolt *z* between the stop 4 and the guard *u* and holding said bolt *z* nominally in its proper position.

5 is a lug projecting downwardly from the inner side edge of the case *f* and centrally arranged and adapted to form with the said bolt *z* the latch lock for retaining said cover *s* in its closed position. 8 is a backing preferably of thin sheet metal and having a central opening corresponding to the opening *e* and being secured to the inner face of the said cover and surrounding the said opening *e* and forming a recess between said backing and the inner face of said cover for a sheet of destructible material, such as paper or parchment. The said paper or parchment extends across and completely covers in the opening to the case through the cover thus effectually protecting and preventing any tampering with the bolt *z*. The destructible material 7 is the part of the device on which may be printed or engraved or placed in any suitable manner the trade mark of the owners.

In the door post directly opposite to the bolt in the post *c* a recess 9 is formed in dimensions large enough to permit the free turning of the T shaped end *m* of the draw bar *i*. The recess 9 is covered by the plate 10, in which is the opening 11 having the vertical slots 12 and 13 diametrically opposite one another extending therefrom corresponding with the T shaped end *m* in its vertical position, so that the said draw-bar may be inserted through the said plate 10 and turned bringing the T shaped end into its horizontal position and consequently locking the said bar *i* into the said recess 9.

In the operation of this invention the draw bar *i* is turned by means of the operating bar *o*, so that the T shaped end is in the vertical position. The door is then shut to the post *c* and the draw-bar *i* slid into position in the recess 9, the operating bar *o* is then dropped and falls into the slot *p* for locking purposes by the shutting of the cover *s*. The operating part is thus within the casing *f*. The cover *s* previous to shutting has had its opening closed in with the destructible covering, consequently it is impossible to get at the bolt *z* without destroying the said destructible covering. In order to open the car door it is necessary to destroy covering 7 and pull down the bolt *z* and turn the draw-bar. To do this the operating bar *o* is turned and the draw-bar withdrawn from the post.

The advantages of this invention are that the seal lock remains a permanent part with the car for locking the door and all the renewal necessary is the seal forming the destructible covering, which may be made in any cheap form.

It must be understood that while the description is herein confined to a freight car door the seal lock may be used in sealing any door whether of building or vehicle.

What I claim as my invention is:

1. In a seal lock, the combination with a

door and door jamb, of a casing secured to one of said members and open at the front, a cover hinged to said casing and having a central opening therethrough, a draw-bar sliding within said casing and therebeyond and engaging the other of the said members, means engaged by said cover for locking said draw bar, means for locking said cover to the casing, and removable means for closing said opening in the cover, substantially as described.

2. In a seal lock, the combination with a door and door jamb, of a casing secured to one of the aforesaid members and open at the front, a cover hinged to said casing having a central opening therethrough, a draw-bar slidably arranged in said casing and extending therebeyond and engaging the other of the aforesaid members, and having an arm extending laterally therefrom and retained by said cover in its closed position, means for locking said cover to the casing, and destructible means for closing said central opening in the cover, substantially as described.

3. In a seal lock, the combination with a door and door jamb, of a casing secured to said wall and open at the front and having a lug projecting outwardly from the inner face of its rear wall, a draw-bar slidably arranged in said lug terminating in a T shaped end beyond the casing, an operating bar extending laterally therefrom within the casing, a plate extending across said casing therewithin and secured to the sides thereof towards the lower end and having a plurality of open slots from its outer side adapted to receive said operating bar from the draw-bar, a cover hinged to said casing and having a central opening therethrough, a latch mechanism locking said cover to the casing and having its bolt extending across said central opening and a destructible cover closing up said central opening and closing in said bolt of latch mechanism, substantially as described.

4. In a device of the class described, in combination, a post having a recess in one of its faces, a plate covering said recess having an orifice therethrough and vertical slots extending from said orifice diametrically arranged in relation one to the other, an opposing post having an orifice therethrough, a casing adjacent to the opposing post and having an orifice through its side wall registering with the orifice through said post and a lug projecting from the rear wall thereof, a draw-bar having a T shaped outer end slidably arranged in said orifices through the side of the casing and the said opposing post and slidably supported at its inner end in said lug, an operating bar rigid with said draw-bar extending downwardly therefrom, a plate extending across said casing and secured to the sides thereof in proximity to the lower end having open slots in its outer

edge, a cover hinged to said casing and having an inward projection thereacross adapted to close said slots in said plate and a flange surrounding the inner edge fitting within said casing, said cover also having a central opening therethrough surrounded by a raised backing of suitable sheet material, a bolt spring-held to its upper position sliding in suitable supports from the inside of the cover across said opening and beveled at the upper end to engage a suitable catch on said

casing, and a destructible cover inserted between said backing and the inner face of the aforesaid cover and closing in said bolt and latch mechanism, substantially as described. 15

Signed at Rossland, B. C., this 22nd day of September 1906.

H. B. MACKINTOSH.

Witnesses:

W. H. DANBY,
I. D. BROWN.