

L. R. HOPTON.
EMERGENCY LOCK.

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908,864.

Patented Jan. 5, 1909.

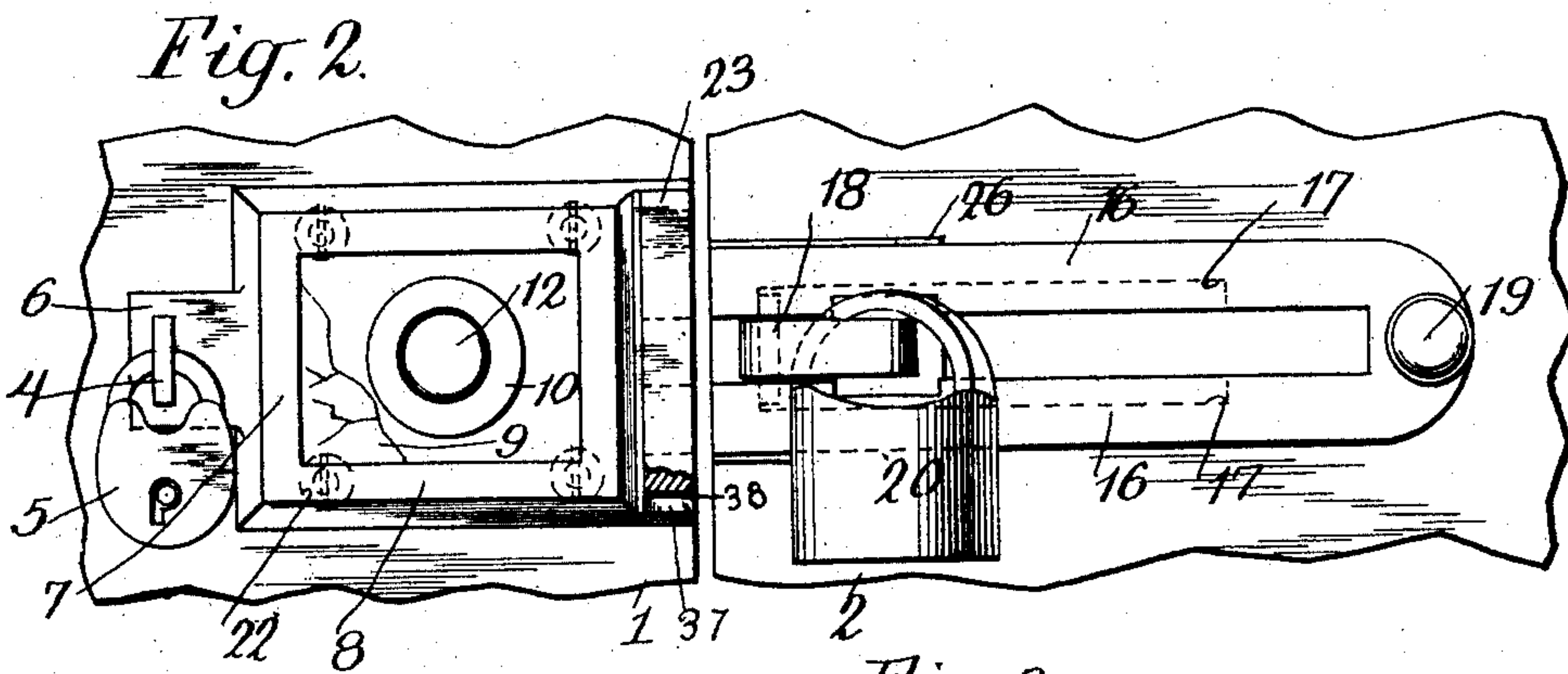
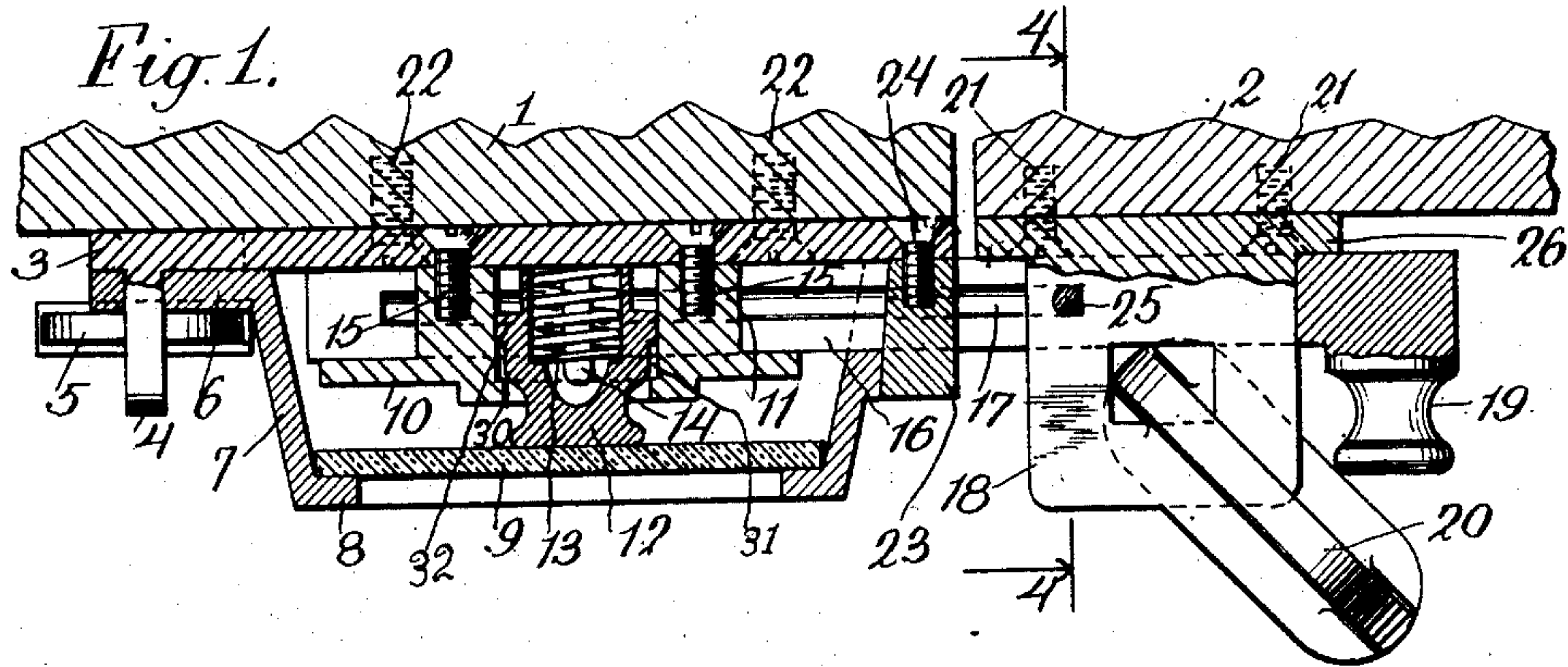


Fig. 3.

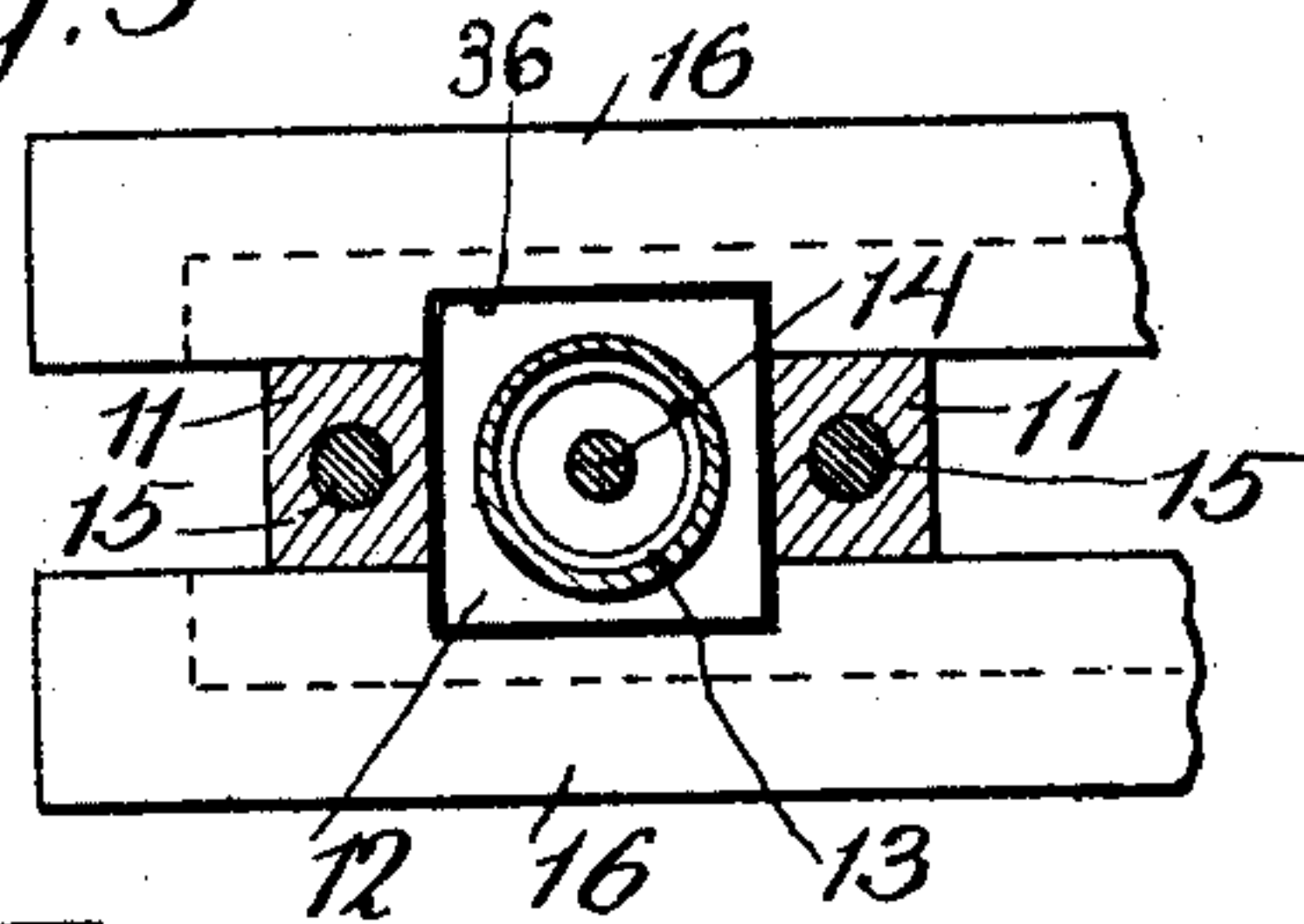
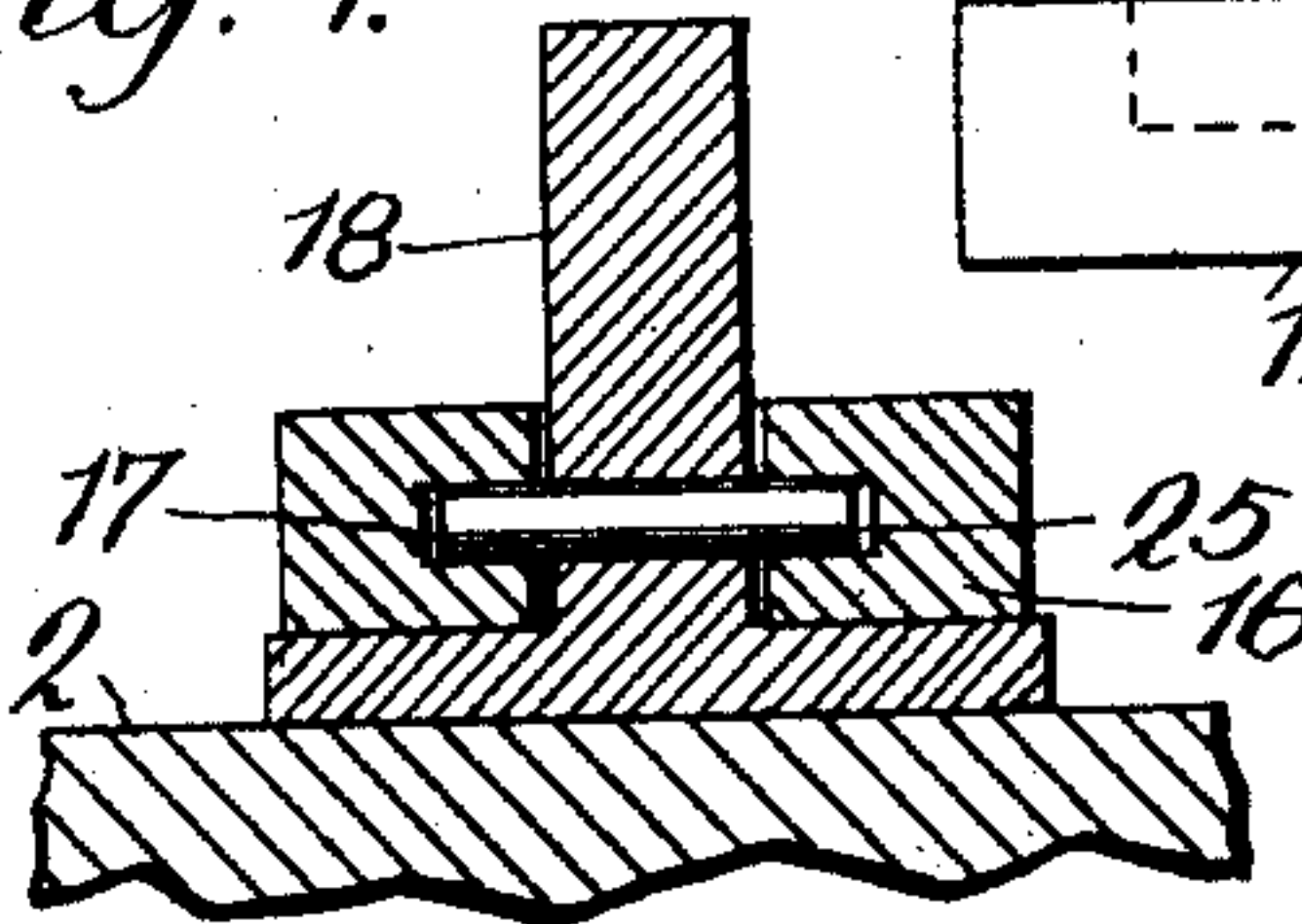


Fig. 4.



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UNITED STATES PATENT OFFICE.

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EMERGENCY-LOCK.

No. 908,864.

Specification of Letters Patent.

Patented Jan. 5, 1909.

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To all whom it may concern:

Be it known that I, LEMUEL R. HOPTON, of Plainfield, Union county, New Jersey, have made certain new and useful Inventions
5 Relating to Emergency-Locks, of which the following is a specification, taken in connection with the accompanying drawing.

This invention relates to emergency locks and relates especially to locks of the hasp
10 type in which the hasp member may be held in normal position on its support by a frangible retainer which may be broken and allow the emergency operation of the lock when desired as well as permitting its regular
15 operation in the usual way.

In the accompanying drawing showing an illustrative embodiment of the invention and in which the same reference numeral refers to similar parts in the several figures, Figure 1
20 is a longitudinal horizontal section showing the parts in normal locking position. Fig. 2 is a side elevation showing the lock after its emergency release. Fig. 3 is a detail sectional view showing the detent and adjacent
25 parts; and Fig. 4 is a transverse sectional view along the line 4—4 of Fig. 1.

In the illustrative embodiment of the invention shown in the drawings the hasp or hasp shaped locking-member 16 may be mounted
30 in guides on a suitable support 3 which may be secured to the door or other member by suitable screws, such as 22. The hasp or locking member if desired may be given a generally U-shape, as indicated, and cooperate with suitable
35 guides 11 having the connecting face 10 and secured to the support by suitable screws 15 if desired, suitable guiding apertures for the hasp being formed in the side 23 of the casing similarly secured to the support by the screws
40 24 so that the hasp may be moved longitudinally into emergency release position when desired by its handle 19. The hasp may be formed with suitable recesses 36 of rectangular form to cooperate, as shown in Fig. 3,
45 with an automatic detent 12 movably mounted in the guides, which may be done by forming a suitable socket 31 therein to accommodate the detent, the flange 30 on the guides cooperating with the detent and in connection with a suitable rib 32 thereon preventing
50 its excessive withdrawal under the influence of a suitable spring such as 13 within the detent and loosely surrounding the aligning pin 14 which may, if desired, be mounted
55 in the support. In its normal holding posi-

tion shown in Fig. 1 the rib 32 of the detent lies within the recesses 36 in the hasp so as to hold it in normal position in its guides and the detent is preferably held in this normal position by a suitable frangible retainer 9 of
60 glass or other suitable material which may form the exposed or outer face of a suitable inclosing casing 7 removably mounted on the support as by providing suitable fingers 37 on the casing fitting within corresponding
65 notches 38 in the side 23 and by forming a suitable extension or tail 6 on the other end of the casing fitting over the projecting eye 4 on the support and retained in position by any desired means, such for instance as the
70 padlock 5, the casing having suitable projections or lips 8 to hold the retainer 9 in place.

A suitable staple, such as 18, may be mounted in any desired way on the cooperating jamb or other member to be secured as
75 by the screws or other fastenings 21 passing through the staple plate 26 and located under the hasp 16 when in normal locking position, the hasp being held on the staple by any desired means such as the padlock 20, for ex-
80 ample. In order to guide the hasp during its emergency withdrawal from the casing a suitable stud 25 may, if desired, be mounted within the staple and project into one or more suitable recesses such as 17 in the hasp,
85 guiding the same with respect to the staple during its withdrawal and limiting its outward movement so that it cannot become displaced or lost. It is of course apparent that during its normal operation the lock may be
90 fastened or released by operating the padlock 20 which when released allows the end of the hasp to be withdrawn from the staple in opening the door for example and this action may take place any number of times
95 without interfering with the emergency action of the lock. In an emergency when it is desired to open the door from the inner side of the same on which the lock is supported the frangible retainer 9 may be broken
100 with any suitable instrument and the detent 12 is immediately forced outward by the spring as far as possible in the socket 31 so that its rib 32 moves out of the recesses 36 in the hasp and allows the latter to be com-
105 pletely withdrawn from the casing by the handle so that the parts assume the emergency release position shown in Fig. 2 in which the door can be readily opened without opening either of the padlocks 5 or 20.
110

The retainer 9 can of course be readily replaced by unlocking the padlock 5, swinging up the casing 7 and inserting a new retainer after which the fingers 37 can be inserted in
 5 their notches, the casing swung down upon the support and locked in normal position in which it covers the attaching screws 22 so as to prevent their being tampered with.

Having described this invention in connection with an illustrative embodiment thereof,
 10 to the details of which disclosure the invention is not of course to be limited, what is claimed as new and what is desired to be secured by Letters Patent is set forth in the
 15 appended claims.

1. In emergency locks, a support having a projecting eye, guides and a side provided with guide apertures secured thereto, a detent mounted in a socket in said guides, a
 20 spring normally tending to force said detent outward into release position, a U-shaped hasp having a handle mounted in said guides and having recesses to be engaged by said detent when in normal position, a casing
 25 having fingers cooperating with notches formed in said side and having a tail cooperating with and adapted to be fastened to said eye and a frangible transparent retainer mounted in said casing to engage said detent
 30 and hold the same in normal position, a staple having a staple plate provided with attaching openings and having a stud engaging longitudinal slots in said hasp to guide and limit the outward movement thereof,
 35 said hasp covering said attaching holes in said staple plate.

2. In emergency locks, a support, guides secured thereto, a detent mounted in a socket in said guides, a spring normally tending
 40 ing to move said detent outward into release position, a U-shaped hasp mounted in said guides and having recesses to be engaged by said detent when in normal position, a casing detachably secured to said support and having
 45 ing an exposed replaceable frangible retainer to engage said detent and hold the same in normal position and a staple having a stud engaging longitudinal slots formed in said hasp to guide and limit the outward movement thereof.
 50

3. In emergency locks, a support, guides formed thereon, a detent mounted in said guides, means normally tending to move said detent into release position, a movable locking member mounted in said guides and having
 55 ing recesses to be engaged by said detent when in normal position, a casing detachably secured to said support and having an exposed frangible retainer to engage said detent and hold the same in normal position
 60 and a cooperating locking member to be engaged with said movable locking member.

4. In emergency locks, a support, a detent movably mounted on said support, means
 65 normally tending to move said detent into

release position, a movable locking member mounted on said support and engaged by said detent when in normal position and an exposed frangible retainer mounted on said support to engage said detent and hold the
 70 same in normal position to allow said detent to be moved into release position and said locking member to be thereupon released on the breaking of said retainer.

5. In emergency locks, a support, a movable locking member mounted on said support, a detent mounted on said support and engaging said locking member to hold the
 75 same in normal position, a casing removably secured to said support and having an exposed frangible retainer to engage said detent and hold the same in normal position and adapted to allow the movement of said detent into release position and the emergency release of said locking member when
 80 said retainer is broken.
 85

6. In emergency locks, a support, a hasp mounted on said support, a detent mounted on said support and cooperating with said hasp to hold the same in normal position, a
 90 spring normally tending to move said detent into release position to thereby release said hasp and an exposed frangible transparent retainer mounted on said support to engage said detent and hold the same in normal position.
 95

7. In emergency locks, a support, a hasp movably mounted on said support, a detent mounted on said support to engage said hasp and hold the same in normal locking position, means tending to move said detent into re-
 100 lease position to thereby allow said hasp to be moved into emergency release position, a removable casing mounted on said support and an exposed frangible transparent retainer to engage said detent and hold the
 105 same in normal position.

8. In emergency locks, a support, a detent movably mounted on said support, means normally tending to move said detent into release position, a movable locking member
 110 mounted on said support and engaged by said detent when in normal position, a locking device cooperating with said locking member to allow its normal release and a frangible retainer mounted on said support
 115 to engage said detent and hold the same in normal position to allow said detent to be moved into release position and said locking member to be thereupon released on the breaking of said retainer.
 120

9. In emergency locks, a support, a movable locking member mounted on said support, a detent mounted on said support and engaging said locking member to hold the
 125 same in normal position, a locking device cooperating with said locking member to allow its normal release, and a casing removably secured to said support and having an exposed frangible retainer to engage said detent and hold the same in normal position.
 130

10. In emergency locks, a support, a hasp
mounted on said support, a detent mounted
on said support and cooperating with said
hasp to hold the same in normal position, a
5 locking device cooperating with said hasp to
allow its normal release and a frangible re-
tainer mounted on said support to engage
said detent and hold the same in normal po-
sition and adapted to allow the movement of
10 said detent into release position and the
emergency release of said locking member
when said retainer is broken.

11. In emergency locks a support, a lock-
ing member mounted on said support, means
15 comprising a frangible retainer engaging said
locking member to hold the same in normal
position and allow the emergency release of
said locking member when said retainer is

broken, and a locking device cooperating
with said locking member to allow its normal 20
release.

12. In emergency locks, a support, a lock-
ing member mounted on said support, emer-
gency releasing means engaging said locking
member to hold the same in normal position 25
and to permit the emergency release of said
locking member when said releasing means
are operated, and a locking device cooperat-
ing with said locking member to allow its in-
dependent normal release while said locking 30
member is held by said emergency releasing
means.

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