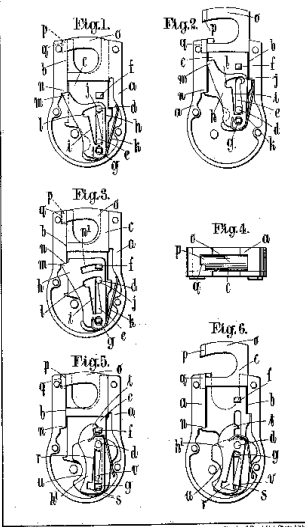


[This Drawing is a reproduction of the Original on a reduced scale.]



Drawing pages of GB273220 A



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Improvements in lever locks or padlocks

Inventor(s):

Applicant(s):

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Application number:

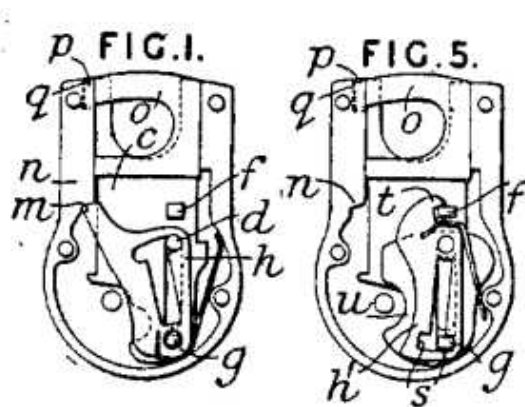
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Priority number(s):

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Abstract of GB273220 (A)

273,220. Mitchell, H. March 30, 1927. Lock-mechanism, lever-type; padlocks.-In a lock or padlock having a sliding bolt or shackle c with a stump g carrying a pivoted lever h, which is slotted to receive a casing stump d, the lever h is provided with an extension m which, in the locked position of the lever, abuts against a shoulder n on the casing. The lever h may be provided with a slot bearing on the stump f of the bolt c. The outer bar o of the bolt has a lug p adapted to engage in a notch q in the casing. Additional slotted levers h<1>, Fig. 5, together with guard plates u may be pivoted on the stump d. These levers have locking notches s and hooks t to engage the stump f.





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Description of GB273220 (A)

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PATENT SPECIFICATION

Application Date: March 30, 1927 No 8800/27, Complete Accepted: d June 30, 1927.

Fan COMPLETE SPECIFICATION.

Improvements in Lever Locks or Padlocks.

I, HARRY MITCHELL, of 3 and 5, Leighton Road, i Kentish Town, London, N Wa British subject, do hereby declare the nature of this invention and S in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement: -

This invention relates to lever locks and more especially to padlocks comprising a, sliding bolt or shackle in which one or more levers are pivotally mounted on a stump carried on the sliding bolt or shackle and having a slot therein allowing this lever to slide on a stump projecting from the casing on which other levers or guard plates not moving with the bolt or shackle can be mounted.

Levers pivotally mounted on a stump on the bolt or shackle and moving therewith have -heretofore been provided with locking notches at the ends of the slots' therein to engage on the stump projecting from the case so that when the lever is thrown to its locking position the lever in effect forms a strut between the stump on the sliding bolt and the stump projecting from the casing.

According to this invention, in order to provide a more effective and secure lock, the lever is provided with an extension the end of which, in the locked position, abuts against a part of the lock case so as to provide a strut between the stump on the sliding, bolt and this part.

of the lock case and thus offer additional resistance to the drawing out of the sliding bolt by force applied to the end of the latter projecting or accessible from 40) outside

the casing When two stumps are provided on the bolt, the lever being pivotally mounted on one and slotted to slide on the other, the stump projecting through the slot reinforces the pivot 4.5 stump.

In the accompanying drawing:

Figure 1 is a view of a padlock provided with a sliding bolt or shackle and a single lever arranged according to this invention, the cover plate of the padlock 50 being removed and the sliding bolt or shackle being retracted within the casing.

Figure 2 is a view similar to Figure 1 showing the sliding bolt or shackle in its open position, projecting from the casing 5 i Figure 3 is a view similar to Figure 1 showing a modified shape of the improved lever.

Figure 4 is a plan view of the padlock shown in Figure 1 60 Figures 5 and 6 are views similar to Figures 1 and 2, respectively, illustrating forms of lever and guard plate suitable for use in combination with the improved levers 65 As shown in Figures 1 and 2, a is the casing of a padlock having a guideway b in which a sliding bolt or shackle c is movably arranged A stump J projects from the casing, through a slot e in the 70 bolt or shackle which is provided with stumps f and g A lever h is mounted on the stump g and has a slot i therein allowing the lever to move with the bolt or shackle from the locked position shown in Figure 1 to the unlocked position shown in Figure 2 In the locked or retracted position of the bolt a notch j at one end of the slot i receives the stump c Z the lever being thrown to this position by 80 its spring k, and the part of the lever between the stump g and the stump d acting as a strut to hold the sliding bolt or shackle in this locked position A notch 1 may be provided opposite to the 85 notch j to prevent the release of the bolt when the lever is overthrown by an improper key With this arrangement alone it may be possible to force the notch j off the stump d, especially if the 9 i) edge between this notch and the slot i becomes rounded In order to prevent this, the lever h is provided with an extension im which, in the locked position 273220 of the lever, abuts against a shoulder n on the casing and thereby ensures the retention of the bolt in its locked position the lever acting as a strut between the shoulder N and the stump g When the lever is moved by a suitable key-by which the bolt is simultaneously moved towards its projected open position, the extension in b of the lever passes into the -10 slot b in the casing-in which the -bolt c slides The lever may be shaped as shown in Figure 3 to provide a slot ii' against which the stump / bears to assist the stump d in holding the bolt in the locked position In order further to strengthen the bolt against improper interference,, the Outerbar o thereof is provided with a lug p which iih the locked position of the bolt or shackle rests w&ithin a notch q -pro-vided theref or in the casing a.

-The improved formj of lever cau be applied to ach of the levers of a lock, or the same can be used conjointly with levers of any other suitable pattern, for example, in addition to levers of the improved patterli, the lock may also comprise levers h' of the pattern shown in Fi ure-s 5 and 6, -pivoted on the stump dand provided with a slot r in which the stump g 1 can move as the bolt is moved between its locked and unlocked positions.

This form of lever is provided with locking notches S at the encl of the slot r' and with d hook t to engage the stump on the bolt Guard plates u can also be provided in the lock mounted on the stump d and slotted at v to allow the stump g to slide therein These guard plates can be inserted between the levers as desired In Figure 5 the bolt is

shown in its locked position, retained retracted within this casing by the notch S and hook t whilst in Figure 6 the bolt is shown in its projected or unlocked position.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is A lock or padlock provided with a sliding, bolt or shackle having one or more stumps provided thereon to carry pivoted levers having slots therein through which a stump projecting from 55 -the casing extends, characterised in that the said levers have extensions adapted in the locked or retracted position of the bolt to abut against a part of the casing so that force exerted to draw out the bolt 60 is resisted by the stumps on the bolt bearing against the levers which are then held against movement 'by the casing and the stump projecting therefrom.

2 A lock or padlock as claimed in 65