Jan. 2, 1940. C. H. NEHLS 2,185,899

PADLOCK

Filed May 1, 1937

FIG.1.

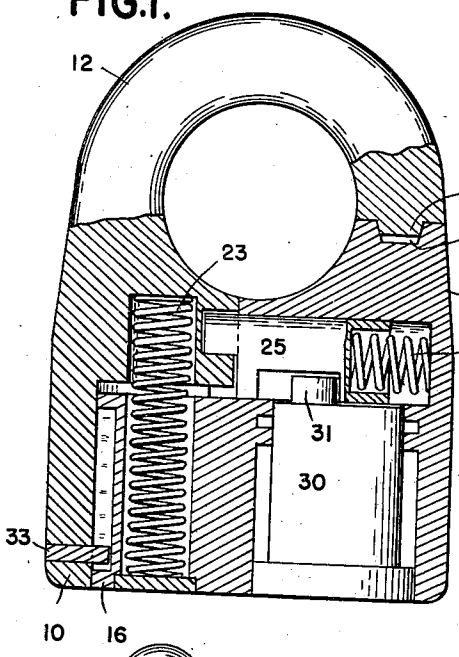


FIG.2.

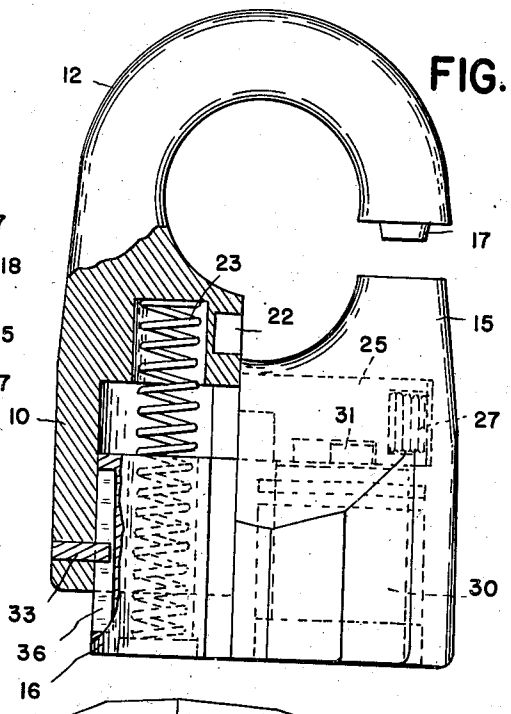


FIG.3.

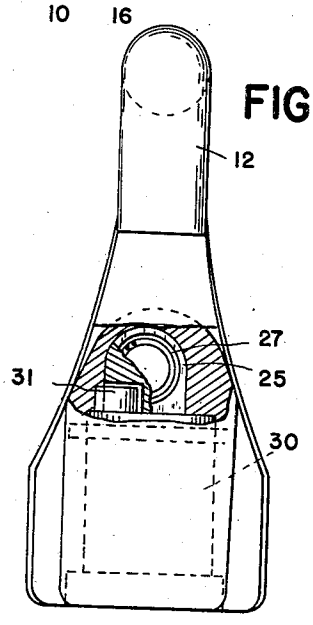
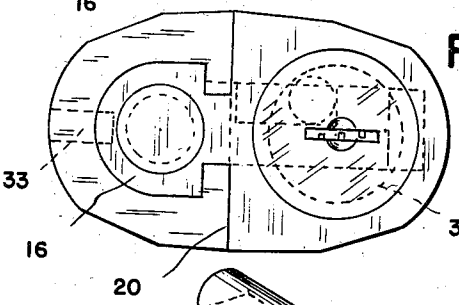


FIG.4.



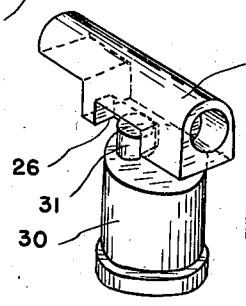


FIG.5.

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PADLOCK

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2 Claims. (Cl. 70—33)

This invention relates to padlocks, having for its principal object the provision of a very simple and sturdy padlock of novel, inexpensive construction and extremely neat appearance, the major parts of which are adapted to be formed by die or permanent mold casting. A further object is the provision of such a padlock which affords great security, and which allows location of the locking and other mechanical parts in a manner rendering them virtually inaccessible to moisture and other foreign elements which might interfere with their operation, despite the provision of no special protecting means therefor.

Another object is the provision of an improved padlock having a body comprising a pair of relatively massive slidable portions carrying cooperating shackle-forming sections, and in which the shackle so formed, when locked, is secured at both ends against twisting.

Other objects and advantages will be apparent from the following description wherein reference is made to the accompanying drawing illustrating a preferred embodiment of my invention and wherein similar reference numerals designate similar parts throughout the several views.

In the drawing:

Figure 1 is a view principally in sectional elevation, but partly in side elevation, of a lock incorporating the principles of this invention, showing the same closed.

Figure 2 is a similar view showing the lock partly opened, a greater proportion thereof being illustrated in side elevation.

Figure 3 is an end elevational view of the lock in closed position, partly broken away;

Figure 4 is a bottom view of the lock, and

Figure 5 is a detailed perspective view of the lock cylinder and bolt assembly.

Referring now to the drawing, it will be seen that the lock consists of two principal parts, 10, 15, longitudinally slidable with relation to each other. The portion 10 carries the principal shackle portion 12, which comprises a partly circular inverted hook section, while the portion 15 is cooperatively formed at its upper end to complete the circular shackle opening, and slidable downwardly to free the end of the shackle hook, which is provided with a lug portion 17 adapted to fit into a recess 18 in top of the downwardly slidable block-like body portion 15. The plane of cleavage between the cooperating body portions 10—15 is designated 20, and a dovetailed connection is provided between the parts, a headed tongue portion as 16 carried by portion 15 being slidable in a conformably shaped aperture in the body portion 10. A spring 23, trapped in aligned openings in the tongue section 16 and in the body section directly thereabove, urges the block portion 15 downwardly to free the end of the shackle hook when the lock bolt 25 is retracted to permit such sliding movement. The bolt is laterally slidable in block 15 into and out of engagement with an opening 22 in the body 10. A spring 27 trapped in the block 15 behind the lock bolt tends to project the bolt, which is retractable by means of a lock cylinder 30 provided with an eccentric pin 31 engaging a slot 26 provided in the bottom face of the lock bolt for such purpose. The lock cylinder is of course rotatable by means of a suitable key (not shown), and the bolt, until it is released in the manner described, holds the block portion 10 in the locked position shown in Figure 1, in which it closes the end of the shackle.

A pin 33 projecting through the side of the body and into a slot 36 in the tongue portion 16 limits the sliding movement of the parts.

What I claim is:

1. A padlock comprising a body formed in two sections slidable with relation to each other upon a plane of cleavage extending longitudinally of the mid portion of the body, a shackle portion rigidly carried by one of said sections, the other section being slidable to open and close said shackle portion, means slidably connecting said sections comprising interfitting overengaging guide portions, one projecting laterally from one section and the other hollowed in the other section, said guide portions being located upon one side of said plane of cleavage and extending only part of the length of the body and stopping short of the shackled portion thereof, and means for locking said sections against relative sliding movement, comprising a bolt member mounted in one of said sections and movable across the plane of cleavage into and out of holding engagement with the other section in the space between the guide portions and the shackle portion; key-controlled operating means for said bolt member including a lock cylinder arranged upon the other side of said plane of cleavage from said interfitting guide portions.

2. Means as set forth in claim 1, in which said bolt member is mounted transversely in and near the top of said section which is movable to open and close the shackle portion, said lock cylinder being mounted in said same section parallel to said plane of cleavage and below the bolt member.

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