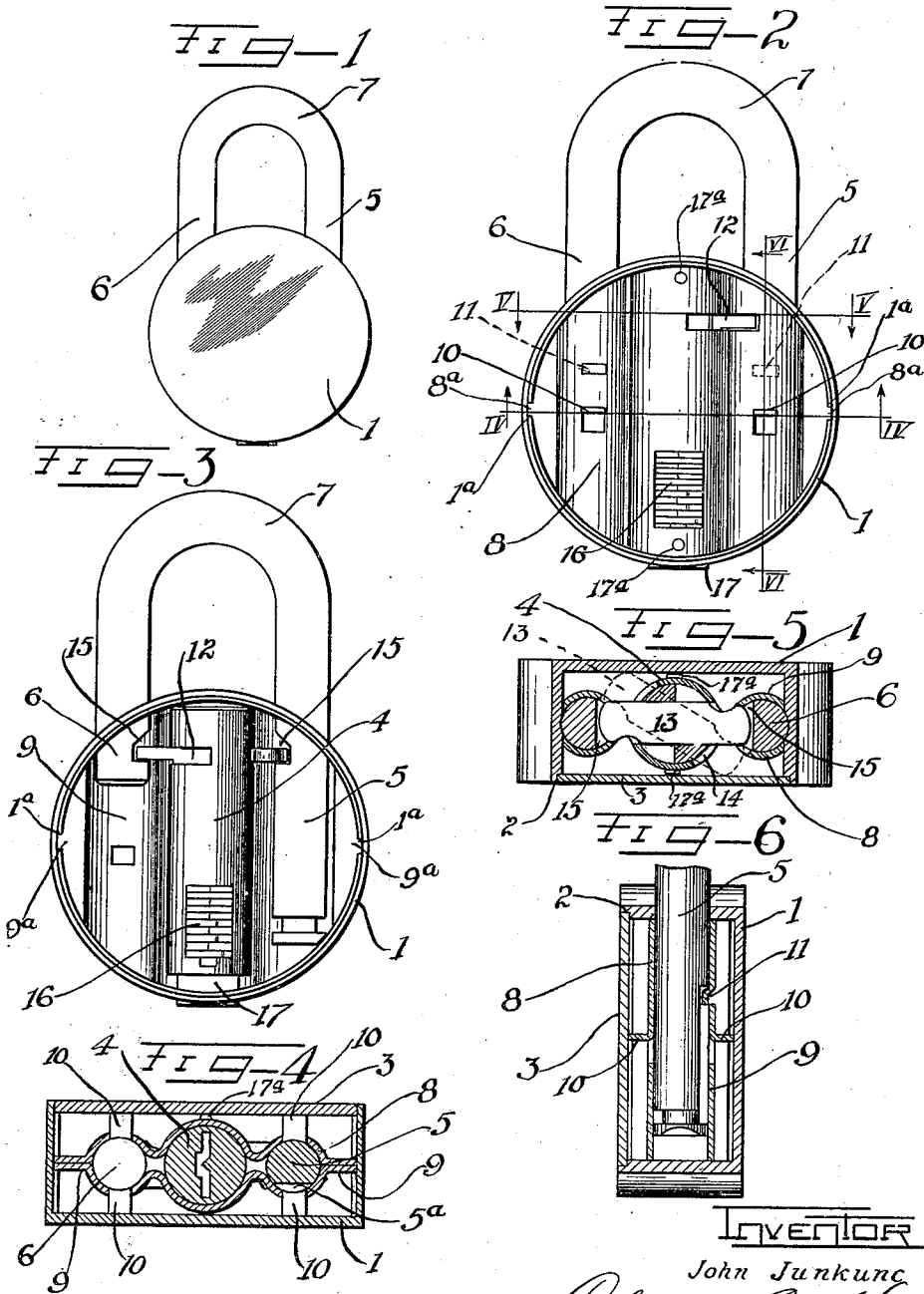


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J. JUNKUNC
CYLINDER PADLOCK
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UNITED STATES PATENT OFFICE.

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CYLINDER PADLOCK.

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This invention relates to a cylinder padlock, and concerns itself more particularly with a casing therefor which may be readily stamped from suitable metal or the like and which may be made in cylindrical form.

The invention comprises the novel structure and combination of parts hereinafter described and more particularly pointed out and defined in the appended claims.

In the accompanying drawing, which illustrates the preferred embodiment of this invention:

Figure 1 is an elevational view of a cylinder lock involving this invention.

Figure 2 is an enlarged view similar to Figure 1, with the upper lock plate removed to show the interior structure.

Figure 3 is a view similar to Figure 2, with the upper lock plate removed.

Figure 4 is a sectional view taken upon the line IV—IV of Figure 2.

Figure 5 is a sectional view taken upon the line V—V of Figure 2.

Figure 6 is a sectional view taken upon the line VI—VI of Figure 2.

In order to illustrate this invention, there is shown a cylindrical metal casing 1 which may be stamped from suitable metal or the like. The casing is provided with an integral bottom and the opposite end thereof is rabbetted, as indicated at 2, for receiving a cover plate 3.

The key barrel, which is designated by the reference numeral 4, and the arms 5 and 6 of the hasp 7 are adapted to be supported within the casing 1, which is provided with suitable apertures therefor. The arms of the hasp and the key barrel are preferably supported within the casing 1 between a pair of co-operating stamped plates 8 and 9, which may be termed "lock plates". These plates are provided with oppositely directed guide teats 8^a which engage grooves 1^a in the casing in order that the plates may be properly aligned in the casing.

It will be noted that these plates are stamped with suitable concave depressions which form suitable cylindrical ways when the plates are assembled for confining the aforementioned parts. Each lock plate is provided with a pair of struck-out teats or tangs 10 for respectively spacing said plates with respect to the top and bottom of the casing, as shown in Figures 4 and 6. Each plate is provided with a stop 11, which is

preferably formed by indenting the same. Each stop is located in one of the ways for engaging the arms of the hasp. One stop 11 engages the end of the short arm 6 of the hasp while the other stop 11 engages a shoulder which is formed at the end of a flat portion 5^a upon the long arm 5 of the hasp. Each lock plate is also provided with a suitable slot 12 for accommodating the ends of the locking bar 13 which extends transversely of the lock plates and which is supported in a suitable slot 14 extending through the key barrel. The hasp is provided with suitable locking notches 15 which are adapted to be engaged by the ends of the locking bar 13.

The key barrel is provided with the usual tumblers 16 as is well known in the art, and the forward end thereof is reduced as indicated at 17, so that by placing the key barrel in oblique position within the casing, the reduced end may be extended through its opening by endwise movement.

The lock plates are also provided with integral projections 17^a which permit the same to be stamped from thin metal and at the same time allow sufficient space for desired travel of the tumblers 16.

In the operation of this lock, the key, of course, is inserted in the barrel which is rotatably confined between the lock plates 8 and 9. As the barrel is turned, it will oscillate the locking bar 13 for engaging and disengaging the ends thereof with respect to the locking notches in the arms of the hasp.

From the foregoing, it will be appreciated that a very simple cylindrical lock casing has been provided in which the parts may be readily stamped and assembled in an expeditious manner.

I am aware that many changes may be made and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon otherwise than necessitated by the prior art.

I claim as my invention:

1. In a padlock, a cylindrical casing having spaced apertures for receiving the hasp, a pair of complementary plates suitably stamped to provide ways for receiving the arms of the padlock and a way therebetween for receiving the key barrel, said plates having suitable slots, and a key barrel posi-

tioned in said last-mentioned way and having a locking bar positioned at the plane of said slots.

2. In a padlock, a cylindrical casing, a pair of lock plates spaced from the top and bottom of the casing, said plates having cooperating depressions forming ways for receiving the arms of the hasp, and a way for receiving the key barrel, said key barrel having a reduced end for insertion by endwise movement.

3. In a padlock, a casing having an integral bottom and a removable cover, and having opposite grooves, and a pair of lock

plates having aligned projections adapted for engaging said grooves for properly aligning said plates with respect to said casing.

4. In a padlock, a cylindrical casing, a pair of lock plates spaced from the top and bottom of the casing and provided with cooperating ways for receiving the arms of the hasp of a padlock, and an intermediate way for receiving the key barrel.

In testimony whereof I have hereunto subscribed my name.

JOHN JUNKUNC.