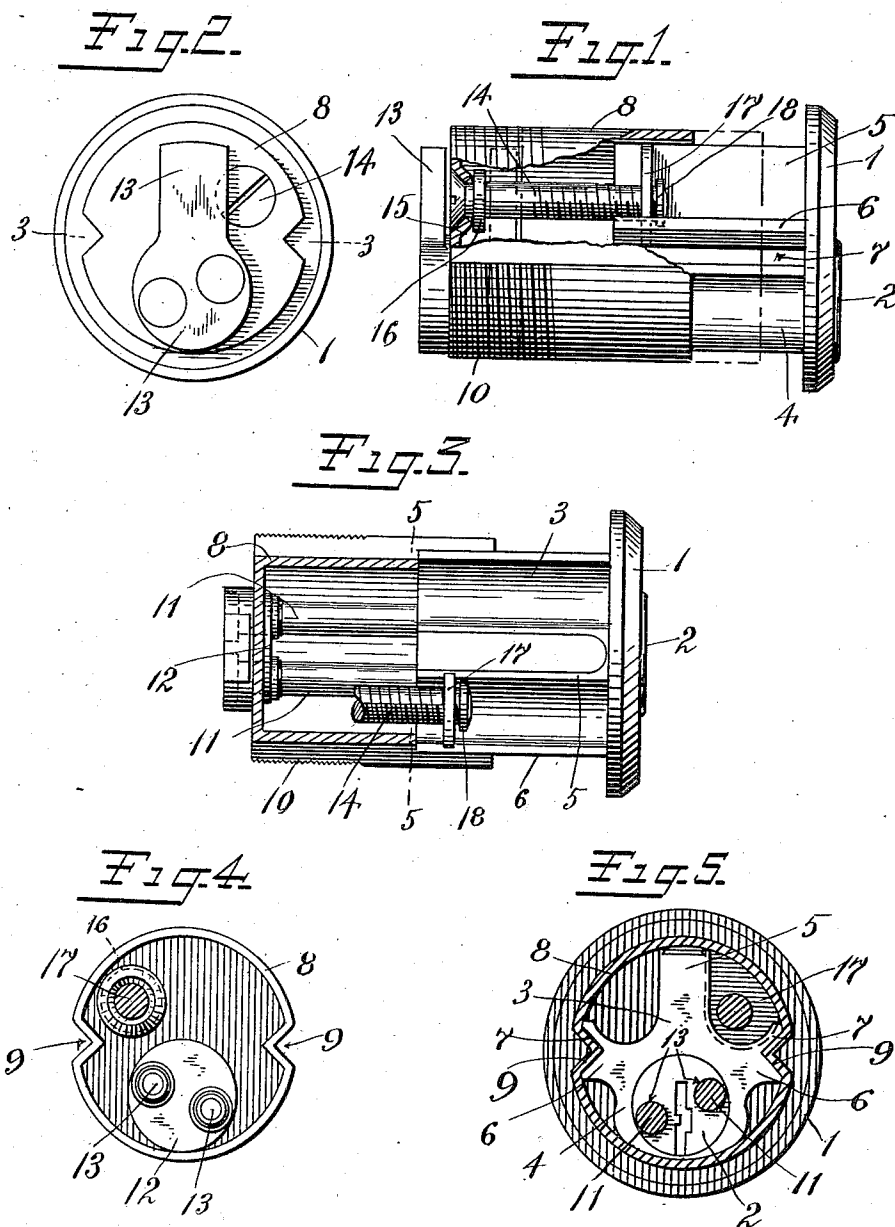


H. G. VOIGHT.
ADJUSTABLE CYLINDER LOCK.
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1,011,286.

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Witnesses:
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UNITED STATES PATENT OFFICE.

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ADJUSTABLE CYLINDER-LOCK.

1,011,286.

Specification of Letters Patent.

Patented Dec. 12, 1911.

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To all whom it may concern:

Be it known that I, HENRY G. VOIGHT, a citizen of the United States, residing at New Britain, Hartford county, State of Connecticut, have invented certain new and useful Improvements in Adjustable Cylinder-Locks, of which the following is a full, clear, and exact description.

My invention relates to adjustable cylinder locks of the type set forth in my former Patents, Nos. 904,580, dated November 24th, 1908, and 997,429, dated July 11th, 1911.

The object of the invention is to simplify the construction of locks of this character by dispensing with certain parts and by re-arrangement of certain others.

With these objects in view, the invention consists in a construction and arrangement of parts, the preferred embodiment of which is illustrated in the accompanying drawing, in which,

Figure 1 is a side elevation of a lock, showing the same in extended position, parts being broken away for clear illustration. Fig. 2 is a rear end view of the lock. Fig. 3 is a longitudinal sectional view on the line 3—3, Fig. 2, the pin cylinder frame being shown in elevation. Fig. 4 is an interior view of the adjustable section, and Fig. 5 is a sectional view on the line 5—5, Fig. 3.

In the embodiment of my invention herein selected for illustration, 1 indicates the face plate of the lock.

2 is the key plug.

3 is the pin tumbler and key plug frame comprising the cylindrical portion 4 for the reception of the key plug. The pin tumbler casing 5 and the guide wings 6, each of which is grooved at 7, to form guides for the adjusting section 8. The adjusting section is provided with depressed portions 9—9 to fit the guide-ways 7.

The key plug and pin tumbler frame are preferably formed of extruded metal forced to the form shown, the pin tumbler mechanism being mounted therein in the usual manner. The adjusting section 8 is threaded at 10 for attachment to the lock case in the usual manner. This adjusting section furthermore is provided with connecting dowel pins 11—11, riveted or otherwise secured to a plate 12 on the rear end of the

adjusting section upon which, in turn, the roll-back arm 13 is mounted. The dowel pins 11—11 slide within suitable bores 13—13 in the key plug.

In order to adjust the section 8 upon the frame 3, I provide an adjusting screw 14 having its head seated within the countersunk portion 15 of the end plate of the adjusting section 8, and having a washer 16 to prevent movement of the adjusting section relatively to the screw. The opposite end of the screw is threaded into a plate 17 secured upon the frame 3 at one side of the pin tumbler case 5, and said end of the screw is provided with a washer 18 to prevent entire separation of the adjusting section 8 from the lock frame 3. By the above described construction, I dispense entirely with the inner telescopic sleeve shown in the prior patents above referred to, and mount the adjusting section immediately upon the lock frame proper. Furthermore, by mounting the adjusting screw in the end plate of the adjusting section, the roll-back arm is relieved of all strain incident to the construction shown in Patent No. 904,580 above referred to, and by providing this adjusting screw with a washer 18, I simplify the means for preventing separation of the adjustable parts.

What I claim is:

1. In a cylinder lock, the combination with a combined key plug and pin-tumbler casing having longitudinal laterally extending guide-wings, of a section having integral guide elements mounted directly upon said wings for adjustment to and fro, a key-plug carried by said casing, and a roll-back carried by said section at the rear end thereof, and an adjusting member operatively connecting said casing with said section for shifting the relative position of one of said parts upon the other of said parts, and means for adjustably connecting the key-plug and roll-back at different positions of adjustment of said section and casing.

2. In a cylinder lock, the combination with a key plug and pin tumbler casing having guide-ways formed thereon, an adjustable section carried by said guide-ways, a key plug in said casing, a roll-back on said section, operating connections between said plug and roll-back, an adjusting member carried by said section and engaging said

casing, and means on said adjusting member for preventing the entire separation of said casing and section.

3. In a cylinder lock, the combination of
5 a combined key-plug and pin-tumbler casing, integral laterally extending wings longitudinally arranged at the opposite sides of said casing, said wings having guide-grooves therein, a cylindrical casing having
10 internal integral ribs arranged to slide upon said wings and within said grooves therein, a rotatable plug carried by the casing, a rotatable roll-back carried by said cylindrical section, an adjustable connection between
15 said plug and roll-back, and an adjustable connection between said casing and section.

4. In a cylinder lock, the combination
20 with a key plug and pin tumbler casing having longitudinal guide wings formed thereon, an adjustable section carried by said wings, a key plug in said casing and a roll-back on said section, operating connections between said plug and roll-back, an adjust-

ing screw carried by said section and adjustably engaging said casing, and a washer
25 on the end of said screw to prevent entire separation of said casing and section.

5. In a cylinder lock, the combination with a combined key-plug and tumbler casing, of guide-wings formed integrally at opposite sides of said casing and arranged
30 longitudinally to form guides at opposite sides of said casing, an adjustable section having integral guide elements mounted directly upon said wings for guidance there-
35 by, a key-plug carried directly by said casing, a roll-back carried directly by said section at the rear end thereof, an adjustable connection between said key-plug and roll-back, and an adjustable connection between
40 said casing and section.

HENRY G. VOIGHT.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."