

H. G. VOIGHT.
 CASING CONSTRUCTION FOR PIN CYLINDER LOCKS.
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1,003,957.

Patented Sept. 19, 1911.

Fig. 1.

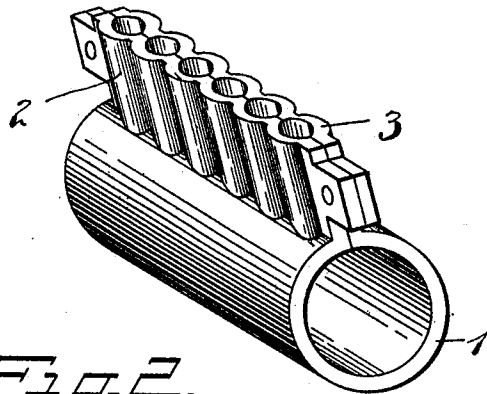


Fig. 2.

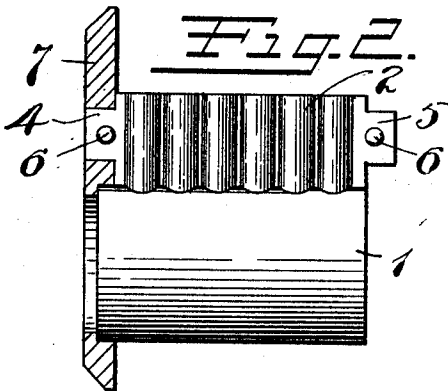


Fig. 3.

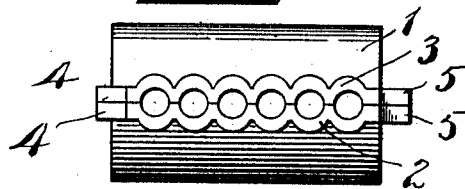
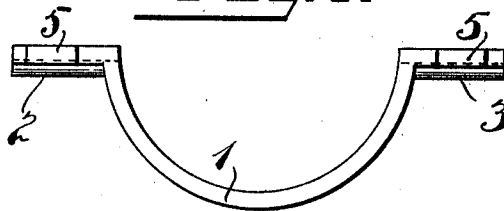


Fig. 4.



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UNITED STATES PATENT OFFICE.

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CASING CONSTRUCTION FOR PIN-CYLINDER LOCKS.

1,003,957.

Specification of Letters Patent.

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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, Connecticut, have
5 invented certain new and useful Improvements in Casing Construction for Pin-Cylinder Locks, of which the following is a full, clear, and exact description.

My invention relates to improvements in
10 pin cylinder lock construction and consists particularly in the improvement of the plug and pin casing.

Broadly speaking, the object of the invention is to attain substantial economies without sacrifice to the strength or durability in
15 the finished product.

In the drawings, Figure 1 is a perspective view of my invention. Fig. 2 is a side elevation of the same with a face plate associated therewith, the latter being shown in
20 section. Fig. 3 is a plan view of the construction shown in Fig. 1. Fig. 4 is an edge elevation of a blank.

As is well known, in a pin cylinder lock
25 there is a main casing or frame portion within which is contained a rotatable plug and a series of pins and followers arranged for coöperation with the plug, whereby the latter may be locked and unlocked. In this
30 instance, the casing which constitutes the guide or support for the plug, as well as the guide or support for the pins and followers, is made from a single piece of wrought metal.

35 In Fig. 4 I have shown an end elevation of a blank as first produced by means of a suitable press, said blank including the main body portion 1 and two edge portions 2—3. As produced on the press, the main body
40 portion is curved to conform substantially to a semi-circle, while the two edge or wing portions 2—3 extend oppositely from the edges thereof, the upper surface of each wing portion being semi-cylindrically chan-
45 neled in such a manner that when the blank is bent up from the form shown in Fig. 4 to the form shown in Figs. 1 to 3, the channels

aforesaid will register and meet in such a manner as to form a plurality of parallel cylindrical bores which contain the pins and
50 followers (not shown). So, likewise, when the blank is turned up into its final form, shown in Figs. 1 to 3, the main body 1 will form a cylindrical or tube-like structure, in the bore of which is supported and located
55 the plug (not shown), which is rotatable in the manner customary in pin cylinder locks. The axis of each pin bore is at a right angle to the axis of its plug bore. If desired, the
60 ends of the wing portions 2—3 may be provided with the extensions 4—5, which may be brought together and secured in any suitable manner, as by rivets 6—6.

7 is a face plate recessed and counter-bored to receive one end of the casing shown
65 in Fig. 1, an assembly of said casing and face plate being shown in Fig. 2.

Broadly speaking, it is immaterial to this invention how the casing for the plug and
70 pins is mounted, said mounting varying with the different types of structure with which said frame is associated.

What I claim is:

1. In a lock, a face plate, a casing for the plug, pins and followers of a pin cylinder
75 lock, said casing including a main body portion rolled into cylindrical form to form a main bore for the plug, wings at each edge of said main body portion with corresponding
80 channels in each wing arranged to face each other to form a pin bore, the axis of which is substantially at right angles to the axis of the plug carrying bore, with means for securing said wing portions in fixed relation to each other, said means comprising
85 end extensions on said wings to hold said wings together and to secure said casing to said face plate.

2. A casing for the plug, pins and followers of a pin cylinder lock, said casing in-
90 cluding a main body portion rolled into cylindrical form to form a main bore for the plug, wings at each edge of said main body portion with corresponding channels

in each wing arranged to face each other to
form a pin bore, the axis of which is sub-
stantially at right angles to the axis of the
plug carrying bore, with means for securing
5 said wing portions in fixed relation to each
other, said means comprising ears at the
edges of said wing portions in combination

with a face plate, said face plate being coun-
terbored to snugly receive the end of said
cylindrical part of said casing.

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