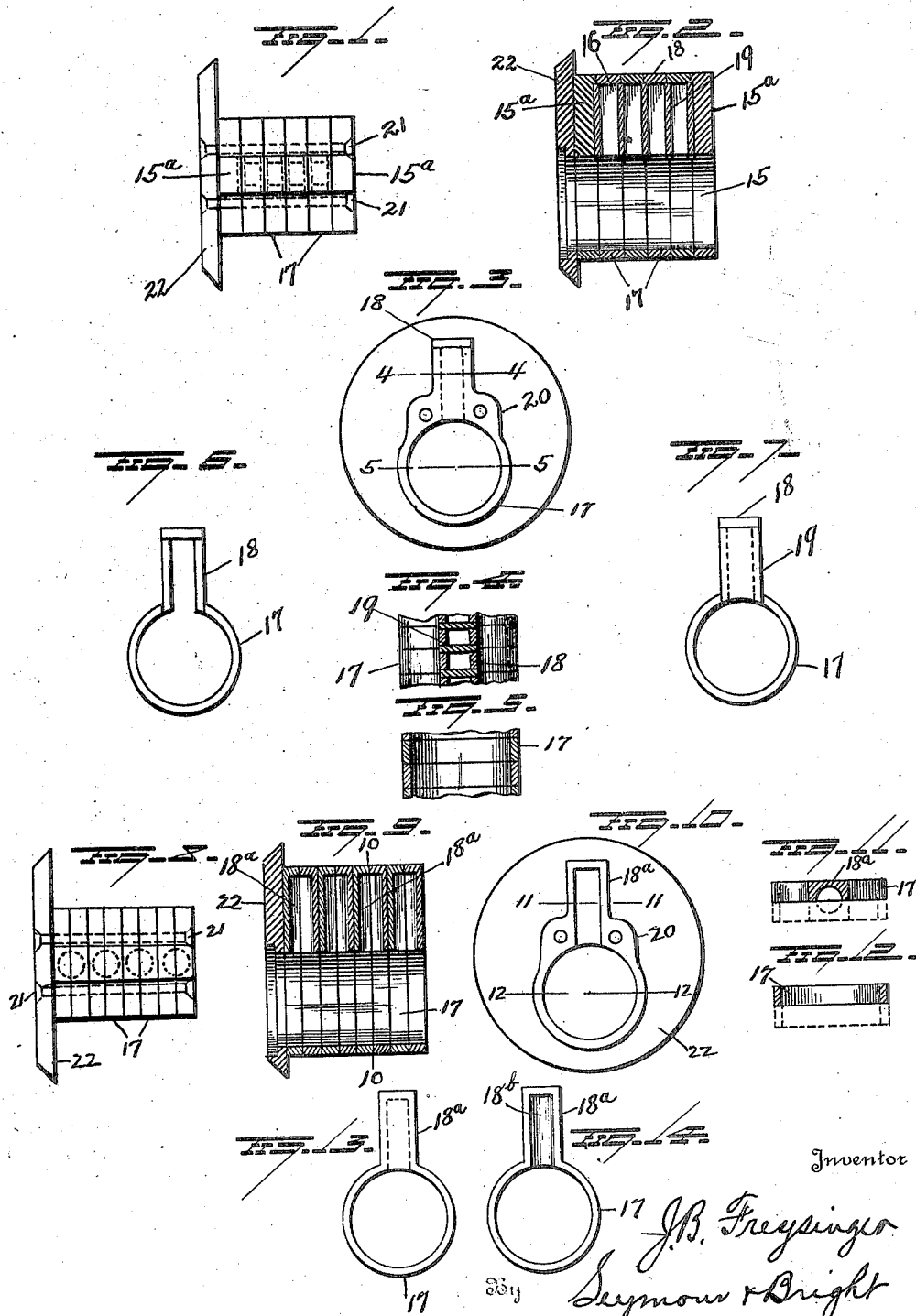


J. B. FREYSINGER.
PIN TUMBLER LOCK.
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PIN-TUMBLER LOCK.

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To all whom it may concern:

Be it known that I, JOHN B. FREYSINGER, a citizen of the United States, and a resident of Stamford, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Pin-Tumbler Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in pin tumbler locks, and it consists broadly in a cylinder and tumbler housing made up of a series of transverse sections secured together and to a face plate.

It further consists in certain details of construction as will be more fully explained and pointed out in the claims.

In the accompanying drawings; Figure 1 is a view in elevation of my improvement; Figure 2 is a view in vertical longitudinal section through the same; Figure 3 is a view in rear end elevation; Figure 4 is a view in section on the line 4-4 of Figure 3; Figure 5 is a view in section on the line 5-5 of Figure 3; Figure 6 is a view in elevation of one intermediate section of the lock; Figure 7 is a similar view showing the division plate in place; Figure 8 is a view in elevation of a modified form of lock; Figure 9 is a view in vertical longitudinal section of same; Figure 10 is a view in transverse section on the line 10-10 of Figure 9; Figure 11 is a view in horizontal section on the line 11-11 of Figure 10; Figure 12 is a similar view on the line 12-12 of Figure 10, and Figures 13 and 14 are views of the opposite faces of one intermediate section shown in Figure 9.

In the construction shown in Figures 1 to 7 inclusive the cylinder 15 and tumbler housings 16 are made up of a series of transverse sections each of which comprises an integral cylindrical portion 17 and an upward extension 18, the former of which is adapted to receive the key plug of a pin tumbler lock and the latter adapted to receive the tumblers or drivers for the latter, the extensions or housings 18 in the present instance being angular or square in cross section and adapted to receive and house similarly shaped or round tumblers or drivers not shown.

A cylinder and its tumbler housings is

made up of a series of sections as shown in Figures 1, 2, 4 and 5, the extension 15^a of the end section being solid, while the extension of the intermediate sections are hollow and are of less thickness than the cylindrical members to receive the division plates 19. These division plates 19, as clearly shown in Figure 2, extend from the cylindrical member up to the underside of the top of the extension thus forming a series of pockets to receive and house the pin tumblers or the drivers for the latter, the construction being such that when the sections are assembled with the division plates between them, they form a continuous cylinder and housing for the tumblers or drivers and tumblers.

Any number of sections may be used, and as the intermediate sections are alike and interchangeable and of the same size and shape, it will be seen that the lock can be constructed to receive one or as many tumbler chambers as may be desired.

The inner faces of the extensions of the end sections, and both faces of the extensions of the intermediate sections are cut away one half the thickness of the division plates 19, so that when the parts are assembled the division plates will be securely held in place between two extension members 16.

The end sections 15^a are enlarged as at 20 for the passage of the rivets 21 which secure the sections and also the face plate 22 together, the intermediate plates, as shown in Figures 6 and 7 being held in place by frictional contact, or if preferred, all of the sections may be provided with enlargements 20 for the passage of the rivets for positively uniting all the members together in a unitary structure and against the possibility of displacement.

In the construction shown in Figures 8 to 14 inclusive, the division plates are dispensed with and the extension 18^a of each section is provided with a semi-circular recessed face 18^b so that when assembled, as shown in Figure 9 the two recessed faces of two adjacent sections form the recess or housing for the tumbler or driver. In other respects the constructions are substantially the same as that shown in Figures 1 and 2.

In all, the sections may be struck up or stamped from sheet metal thus dispensing with the necessity of boring or drilling the

cylinder and tumbler housings and materially decreasing the cost of manufacture without sacrificing strength or durability in the finished lock.

5 It is evident that many slight changes might be resorted to in the relative arrangement of parts shown and described without departing from the spirit and scope of my invention hence I would have it understood
10 that I do not wish to confine myself to the exact construction and arrangement of parts shown and described but,

Having fully described my invention what I claim as new and desire to secure by
15 Letters-Patent, is:—

1. A pin tumbler lock cylinder and tumbler housing composed of a series of independent transverse sections secured together.

20 2. A pin tumbler lock cylinder and tumbler housing, composed of end sections and a series of intermediate transverse sections secured together, the intermediate section forming housings for pin tumblers.

25 3. A pin tumbler lock cylinder and tumbler housing, composed of a series of independent transverse sections secured together by rivets extending from one end section to the other.

30 4. A pin tumbler lock cylinder and tumbler housing composed of end sections, intermediate sections, and division plates between the tumbler housings of the intermediate sections.

5. A pin tumbler lock cylinder and tumbler housing composed of sections each of which comprises a cylindrical member and an extension, the extensions being hollow and forming housings for the tumbler, and means securing the sections together.

6. A pin tumbler lock cylinder and tumbler housing composed of a series of transverse sections each of which comprises a cylindrical member and an extension, the extensions being hollow, division plates between the extension and dividing the latter
45 into a series of pockets for the tumblers and means for securing the sections together.

7. A pin tumbler lock cylinder and tumbler housing composed of a series of transverse sections each of which comprises a cylindrical member and an extension, division plates between the extensions, a face plate, and means connecting the face and rear plate for locking the sections in assembled position.

8. A pin tumbler lock cylinder and tumbler housing composed of a series of independent transverse sections, each section comprising a cylindrical portion and an integral housing member.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

JOHN B. FREYSINGER.

Witnesses:

CHAS. A. BERRY,
CHAS. LEDIN.