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H. K. MORITZ ET AL.

FACEPLATE ATTACHING MEANS FOR LOCKS

Filed March 27, 1924

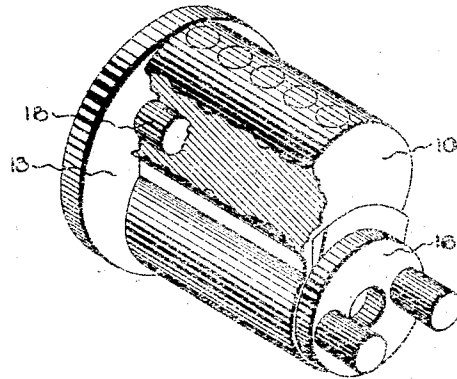


FIG. 1.

FIG. 3

FIG. 5

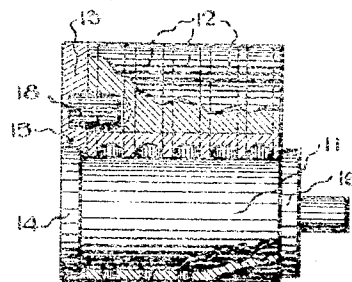
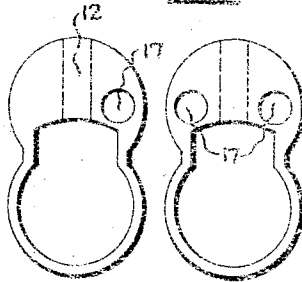
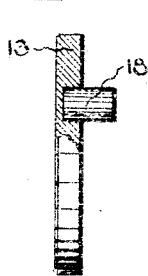


FIG. 4

FIG. 2

FIG. 6

FIG. 7

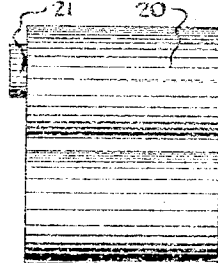
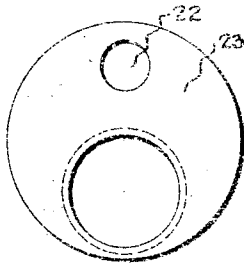


FIG. 6

FIG. 8

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UNITED STATES PATENT OFFICE.

HAROLD K. MORITZ AND FRANKLIN H. HARP, OF SEATTLE, WASHINGTON, ASSIGNORS TO FRANK E. BEST, INC., OF SEATTLE, WASHINGTON, A CORPORATION OF WASHINGTON.

FACEPLATE-ATTACHING MEANS FOR LOCKS.

Application filed March 27, 1924. Serial No. 702,325.

To all whom it may concern:

Be it known that we, HAROLD K. MORITZ and FRANKLIN H. HARP, citizens of the United States, residing at Seattle, in the county of King and State of Washington, have invented a new and useful Improvement in Faceplate-Attaching Means for Locks, of which the following is a specification.

Our invention relates to improvements in locks and the object of our invention is to provide improved and simplified means for attaching the face plate of a lock to a lock core.

A more specific object is to provide a lock core and face plate in which the face plate is rigidly and non-rotatably secured to the lock core by a removable key plug and by a pin or projection on either the face plate or the core member which fits into a recess in the other member, the key plug and pin acting jointly, the key plug preventing removal of the face plate and the pin functioning chiefly to prevent rotary movement of the face plate relative to the lock core.

Other and more specific objects will be apparent from the following description taken in connection with the accompanying drawings:

In the drawings Figure 1 is a view in perspective with parts broken away of an assembled core and face plate constructed in accordance with our invention.

Fig. 2 is a view partly in side elevation and partly in cross section of the same.

Fig. 3 is a view partly in side elevation and partly in section of our face plate.

Fig. 4 is a view in elevation of the front end of a lock core to which this face plate is adapted to be applied.

Fig. 5 is a view in end elevation of a modified form of lock core having two recesses for the reception of two pins instead of one.

Fig. 6 is a view in side elevation of a lock core, showing the projection or pin on the core instead of on the face plate.

Fig. 7 is a view in end elevation of the core shown in Fig. 6.

Fig. 8 is a view in elevation of the inner side of a face plate adapted to be used on the core shown in Fig. 6.

Fig. 9 is a view partly in section and

partly in side elevation of the face plate shown in Fig. 8.

Like reference numerals designate like parts throughout the several views.

Referring to Figs. 1 to 4 inclusive, the numeral 10 designates a lock core having a longitudinal bore for the reception of a key plug 11 and having relatively small transverse bores 12, shown by dotted lines in Figs. 2 and 4, for the reception of tumbler pins of well known form. The lock core 10 is adapted to fit within a suitable receptacle or housing, not shown, and is provided on the forward end with a face plate 13 through which the key plug 11 extends when the lock is assembled the key plug 11 being provided with a cylindrical head or flange 14 that rests within a cylindrical groove 15 in the face plate. A key stop 16 is secured to the inner end of the key plug and prevents removal of said key plug from the core.

In accordance with our invention we provide in the front end of the core, a recess 17 that is offset to one side of the tumbler pin recesses and that is arranged to receive a projection or pin 18 on the inner surface of the face plate 13. The pin 18 may be separable from the face plate 13 as shown or it may be integral therewith and said pin may, if desired, be pressed tightly into a recess in the face plate and may be arranged to be pressed tightly into the recess 17 in the end of the core, or said pin may fit loosely into one or both of said recesses.

If desired, two holes 17 may be provided in the end of the core 11 as shown in Fig. 5 and two pins 18 may be provided in connection with the face plate 13 to fit into said holes, the holes 17 being on opposite sides of the bores 12 in which the tumbler pins are disposed.

In Figs. 6, 7, 8 and 9 we show a core having a pin 21 on the end thereof that is adapted to fit into a recess 22 in a face plate 23. The pin 21 may be integral with and positioned in the medial plane of the core, it being obvious that said pin does not interfere with the tumbler pins in the core.

In the structure shown in Figs. 1 to 5 the tumbler pins of the lock make it necessary to offset the recesses 17 to one side of the central plane of the lock and thereby limit the size of the pins 18 that may be used. In

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the structure shown in Figs. 6 to 9 inclusive the pin 21 may be as large as desired but the length of said pin is limited by the thickness of the face plate 23.

5 We are familiar with locks of this nature in which the face plate and lock core are secured together by a tongue and groove or mortise form of connection but we find that our form of connection hereinbefore described is much more simple and cheap to
10 construct and affords all of the strength required in securing means of this nature.

The foregoing description and accompanying drawings clearly disclose what we
15 now regard as a preferred embodiment of

our invention but it will be understood that this disclosure is merely illustrative and that such changes in the invention may be made as are within the scope and spirit of the following claim. 20

We claim:

In a lock, a lock core, a projecting member on the end of said lock core, a face plate having a recess arranged to fit over said projecting member and a key plug having a
25 head and arranged to be inserted through said lock core to secure said face plate to said lock core.

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