

J. L. HALL.

TIME ATTACHMENT FOR LOCKS.

No. 180,227.

Patented July 25, 1876.

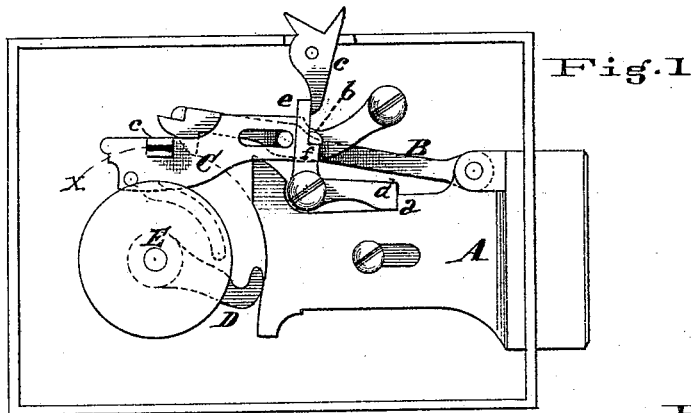


Fig. 1

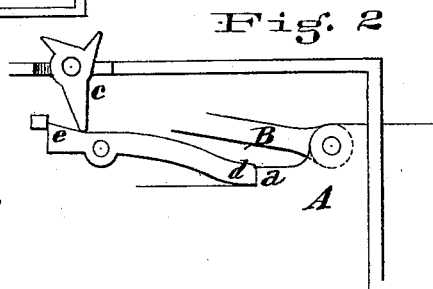


Fig. 2

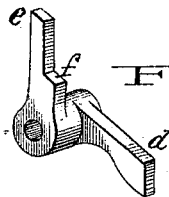


Fig. 3

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IMPROVEMENT IN TIME ATTACHMENTS FOR LOCKS.

Specification forming part of Letters Patent No. **180,227**, dated July 25, 1876; application filed March 16, 1876.

To all whom it may concern:

Be it known that I, JOSEPH L. HALL, of Cincinnati, Hamilton county, State of Ohio, have invented an Improvement in Time Attachment for Locks, of which the following is a specification:

My invention relates to the class of devices in which an obstacle governed by the clock is interposed against the bolt at times when the lock is not permitted to be opened; and my invention consists in the combination of the bolt, an angle-bar provided with a projection, a time-trigger, and a bell-crank lever.

Figure 1 is an elevation of my improved lock, and Fig. 2 a modification. Fig. 3 is a perspective view of the vibratory bell-crank stop.

With the exception of the bell-crank, Fig. 3, the shoulder *a* of the bolt, the projection *b* of the angle-bar, and the time-trigger *c*, combined as they are in the drawing, all the parts of the lock, as shown in the drawing, are of the ordinary construction, A being the bolt; B, the dog; C, the angle-bar, the projection *c* of which is supported over the tumblers; D, the driving-hook; and E, the tumbler-spindle, the line of the tumblers shown by dotted circle X.

As shown in Fig. 1, the bell-crank stop is arranged so that the end of its arm *d* meets the shoulder *a* in the manner shown, and its shoulder *f* of its arm *e* supports the projection *b* of the angle-bar C, and thus sustains the angle-bar and dog until, by the action of the time-trigger *c* in forcing the arm *e* to the left, both the bolt and the angle-bar are released, and the lock is permitted to be opened by the ordinary adjustment of the tumblers and the movement of the hook D.

I am aware that the combination of a time mechanism with devices for holding the angle-bar out of the tumblers is old, and I therefore lay no broad claim thereto.

I claim—

In combination with the bolt A *a*, time-trigger *c*, and projection *b* on the angle-bar, the bell-crank *e f d*, arranged and operating substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

JOSEPH L. HALL.

Witnesses:

GEO. G. ALLEN,
GEORGE H. HIGH.