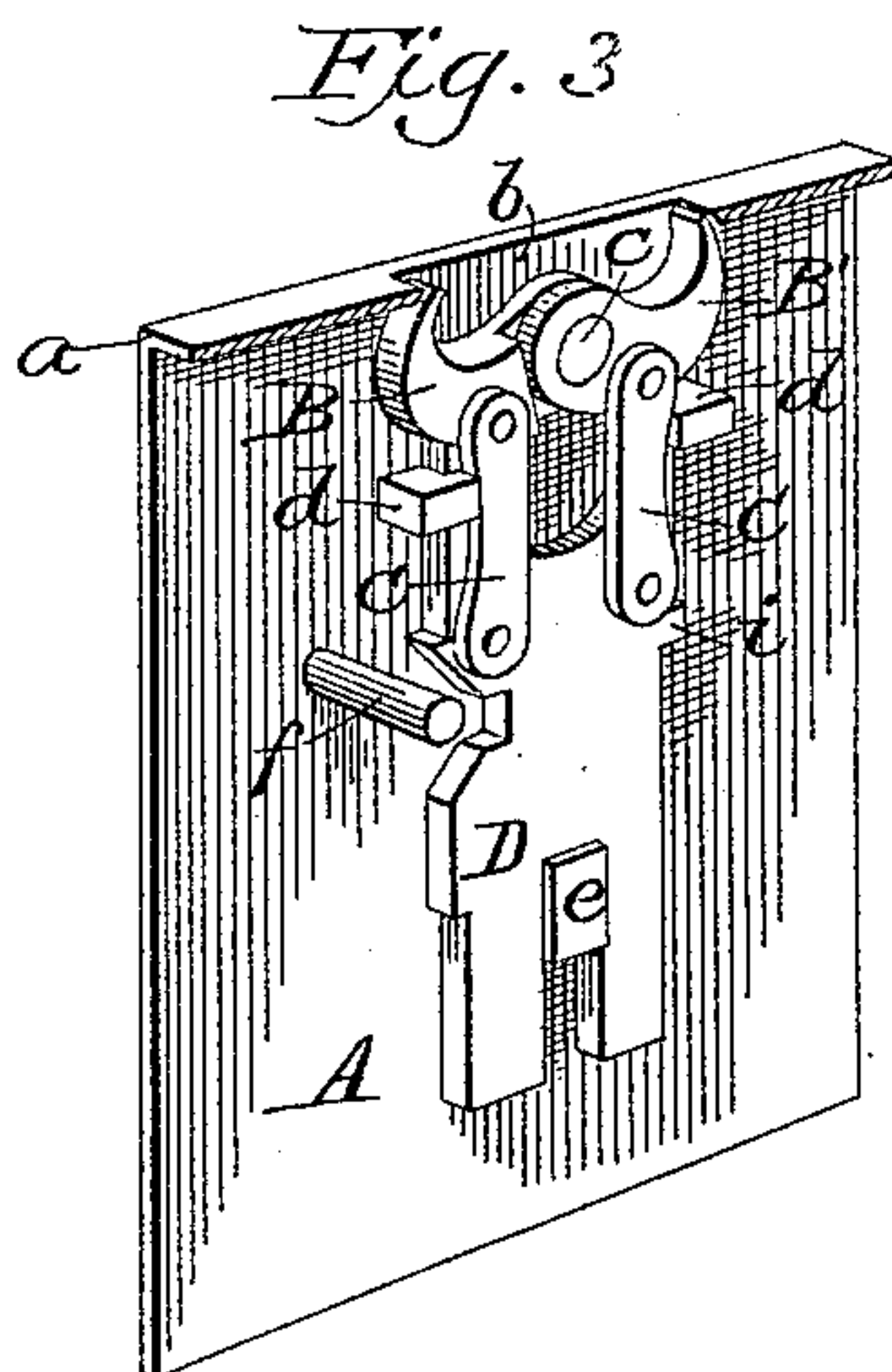
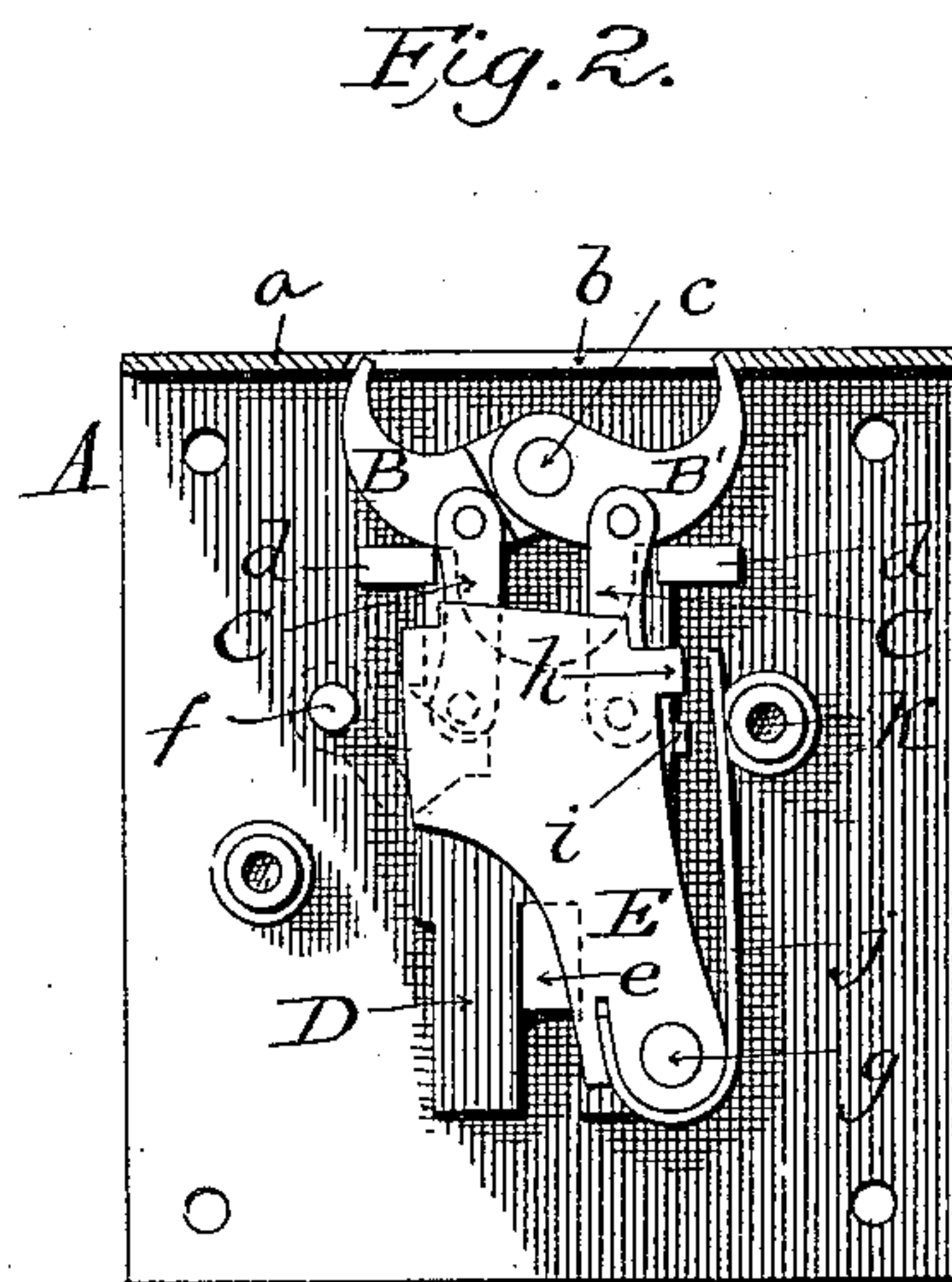
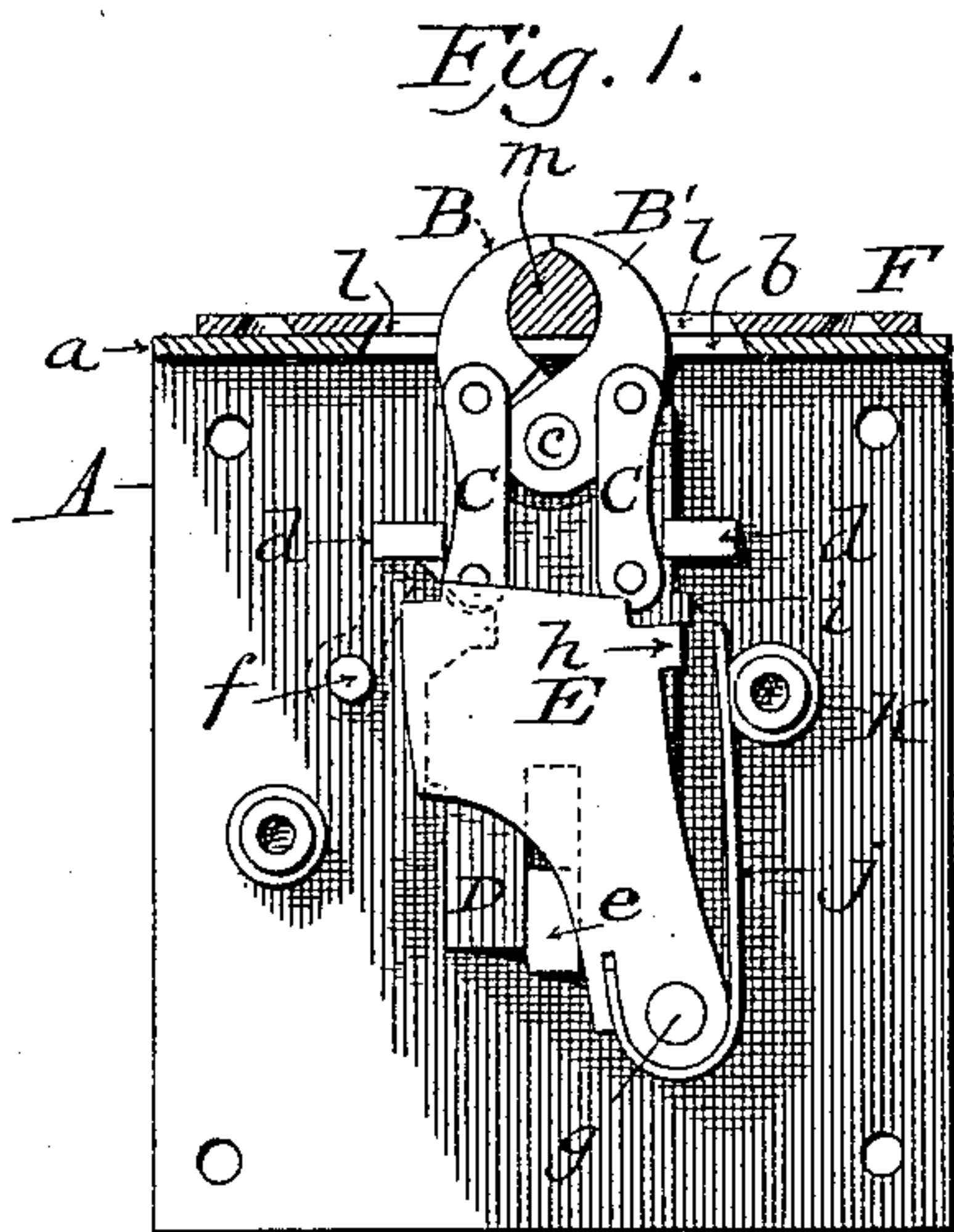


(No Model.)

J. KUBLER.
LOCK.

No. 441,674.

Patented Dec. 2, 1890.



Witnesses:

James F. Duhamel
Horace A. Dodge

Inventor:

JOHN KUBLER,
by Dodge & Sons,
Attys.

UNITED STATES PATENT OFFICE.

JOHN KUBLER, OF HOT SPRINGS, ARKANSAS, ASSIGNOR TO WILLIAM L. BABCOCK, OF SAME PLACE.

LOCK.

SPECIFICATION forming part of Letters Patent No. 441,674, dated December 2, 1890.

Application filed March 21, 1890. Serial No. 344,704. (No model.)

To all whom it may concern:

Be it known that I, JOHN KUBLER, a citizen of the United States, residing at Hot Springs, in the county of Garland and State of Arkansas, have invented certain new and useful Improvements in Locks, of which the following is a specification.

My invention relates to locks, and has reference more particularly to that class of locks in which the bolt comprises two hinged or pivoted members arranged to swing in the arc of a circle.

In the accompanying drawings, Figure 1 is a rear face view of my improved lock with the back plate removed; Fig. 2, a similar view showing the parts in a different position; Fig. 3, a view similar to Fig. 2 with the tumbler removed.

A indicates the front plate of the lock, provided at its upper edge with a laterally-extending portion *a*, in which is formed an elongated slot *b*, through which work the bolt-hooks *B B'* of the lock. These hooks *B B'* are mounted upon a pin or stud *c*, secured to the front plate of the lock, and each is connected by means of a link *C* to a bar *D*, adapted to lie flatly against and to slide upon the rear face of the front plate *A*. The plate *D* is held in position upon the front plate *A* by means of suitable studs *d*, as is usual, and is guided so as to move always in the same straight line toward and from the pin or stud *c* by means of a stud *e*, which is straddled by the plate, as shown in Figs. 1 and 2. That side of the plate *D* nearest the key-post *f* is notched, as indicated by the dotted lines in Fig. 1, to receive the bits of the key, as usual.

E indicates a tumbler pivoted at its lower end upon a pin or stud *g*, and provided with a forwardly-projecting arm or spur *h*, which, when the hooks are closed, is immediately below a lug or projection *i*, formed upon one side or edge of the plate *D*, the tumbler being held in engagement with the lug by means of a spring *j*, secured at one end to the tumbler and bearing at its opposite ends against a screw-post *K*.

While I have shown only one tumbler, it is apparent that the number may be increased, as desired.

F indicates a plate having two slots *l l* to

receive the pivoted hooks *B B'*, and an intermediate cross-bar *m*, which is designed to be engaged by the said hooks, as clearly shown in Fig. 1.

From the foregoing description it will be observed that during the first part of the movement of the key the tumbler will be swung backward upon its pivot *g* and the spur *h* on the tumbler removed from engagement with the lug *i* on the sliding plate *D*. As the movement of the key is continued the bits engage the notched side of the plate *D* and move said plate downward, as indicated in Fig. 2, and it will be seen that as the plate thus moves downward it will, acting through the links *C C'*, cause the hooks *B B'* to move in the arc of a circle and out of engagement with the cross-bar *m* of the plate *F*. It will be seen that when the parts are in this position the spur *h* of the tumbler is immediately above the lug *i* of the sliding plate, this arrangement necessitating the use of a key of the proper form to actuate the slide and bolt-hooks. To bring the hooks *B B'* into locking position, it is necessary to move the tumbler backward again upon its pivot, so as to allow the lug *i* on the sliding plate *D* to pass by said spur, and as soon as the tumbler has been thus moved laterally far enough the sliding bar is free to be raised by the bits of the key engaging its notched side.

Having thus described my invention, what I claim is—

1. In a lock, the combination, with the front plate, of the pivoted hooks, the sliding plate *D*, links connecting the plate with the hooks, and a tumbler adapted to lock the plate against movement.

2. In a lock, the combination, with the front plate, of the pivoted hooks, the sliding plate provided with the lug *i* and connected with the hooks by means of links *C C'*, and a tumbler *E*, provided with a spur *h* to engage the lug *i*, all substantially as shown.

In witness whereof I hereunto set my hand in the presence of two witnesses.

JOHN KUBLER.

Witnesses:

ROBT. MOFFAT,
C. T. TEAGUE.