

(No Model.)

E. E. MASTERS.

LOCK HINGE.

No. 283,128.

Patented Aug. 14, 1883.

FIG. 1.

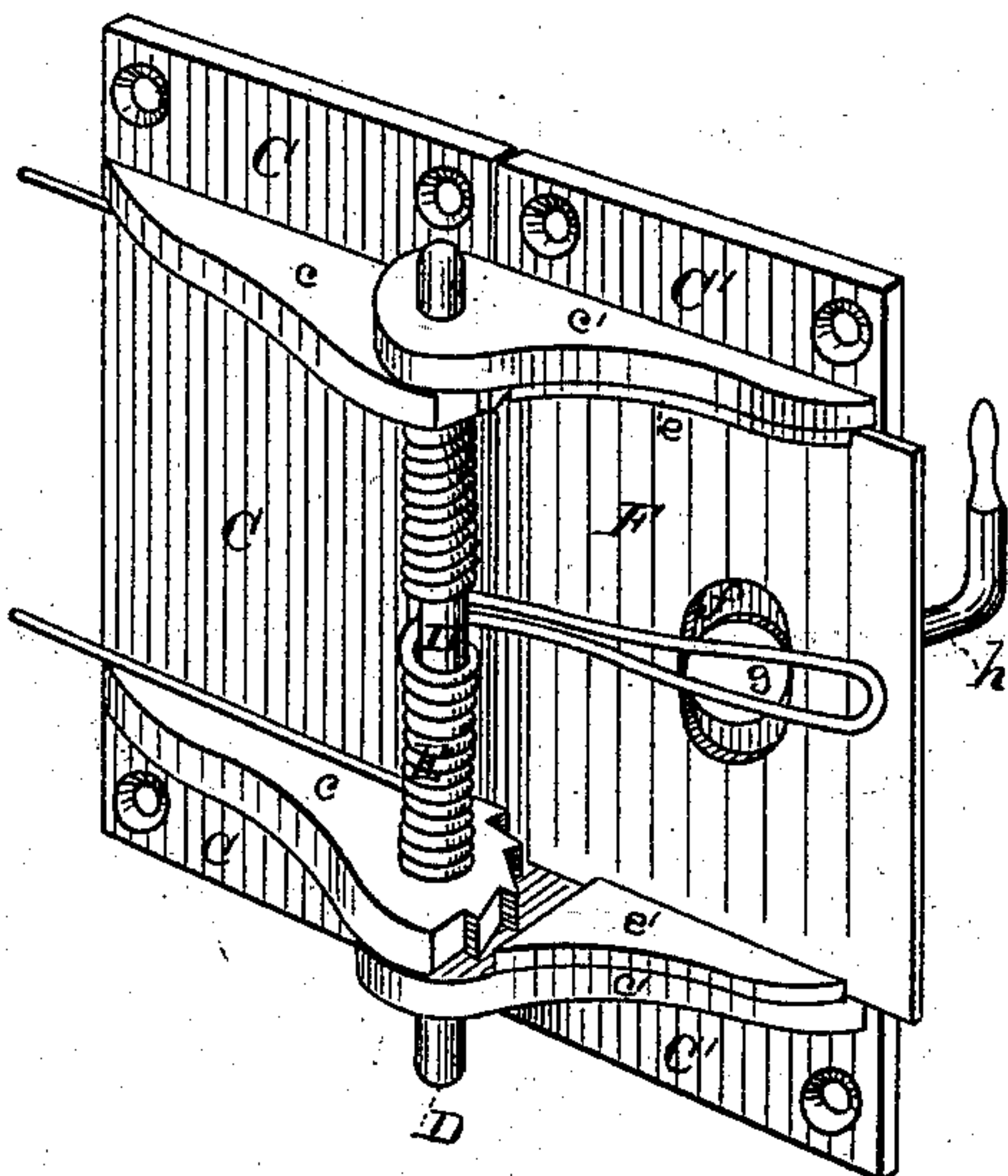
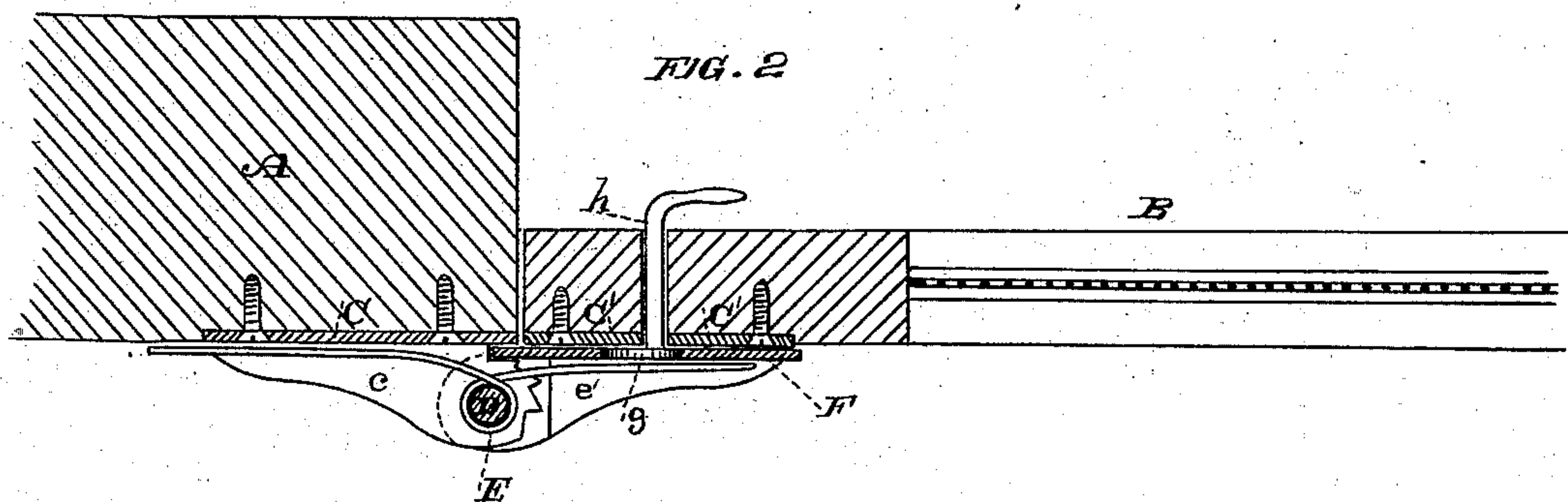


FIG. 2.



Witnesses,

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UNITED STATES PATENT OFFICE.

EGBERT E. MASTERS, OF WOODLAND, CALIFORNIA.

LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 283,128, dated August 14, 1883.

Application filed January 9, 1883. (No model.)

To all whom it may concern:

Be it known that I, EGBERT E. MASTERS, of Woodland, county of Yolo, State of California, have invented an Improved Hinge; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a new and useful lock-hinge; and it consists in certain improvements in the pawl-and-ratchet mechanism by which it operates, as I shall hereinafter explain, reference being made to the accompanying drawings, in which—

Figure 1 is a perspective view of my hinge. Fig. 2 is a horizontal section, showing its application to frame and door.

The object of my invention is to provide a useful hinge for screen and inside doors, window-blinds, gates, &c., which require to be held open temporarily.

A is a portion of a door-frame, and B a part of a screen-door.

C C' are the plates of the hinge, screwed to the frame and door. Upon these plates are flanges or projections forming bearings *c c'*, in which the pintle or shaft D is fitted. The bearings *c* of plate C have their faces formed into ratchets, as shown. Upon the bearings *c* are formed guides *e*, under which a plate, F, is fitted, and is adapted to be moved forward to engage with the ratchet-bearings *c'*, or to be withdrawn to free them. When engaged therewith, the hinge is locked in whatever position it happens to be. When the plates C C' are in line, the locking plate or pawl F may be moved forward to engage with the under or last tooth of the bearings, and thus lock the hinge and keep the door shut completely; or

it may engage with any of the teeth, and thus hold the door ajar. When drawn back, the hinge works freely. In the plate F is made an elongated slot, *f*, in which an eccentric, *g*, on a shaft, *h*, is adapted to operate. The shaft *h* extends through the door, and is bent to form a handle. By turning this it moves the plate F into or out of engagement with the ratchet-bearings.

E is a spring on the pintle D, and operating to close the door when the plate F is released.

I am aware that ratchet-bearings operating similarly to mine have been heretofore used; but their ratchets and the means for operating the pawl mechanism are not constructed like mine, which are easy of separation.

I do not claim, broadly, a ratchet-hinge, but simply the construction I have shown and described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a hinge, the plate C, having ratchet-bearings *c*, the plate C', having bearings *c'* and guides *e*, and the pintle or shaft D, passing through bearings *c c'*, in combination with the locking-plate F on plate C', sliding in the guides *e*, and having slot *f*, the shaft *h*, and eccentric *g*, all arranged and operating substantially as herein described.

In witness whereof I hereunto set my hand.

EGBERT ELBRIDGE MASTERS.

Witnesses:

ROBT. ROBERTS,
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