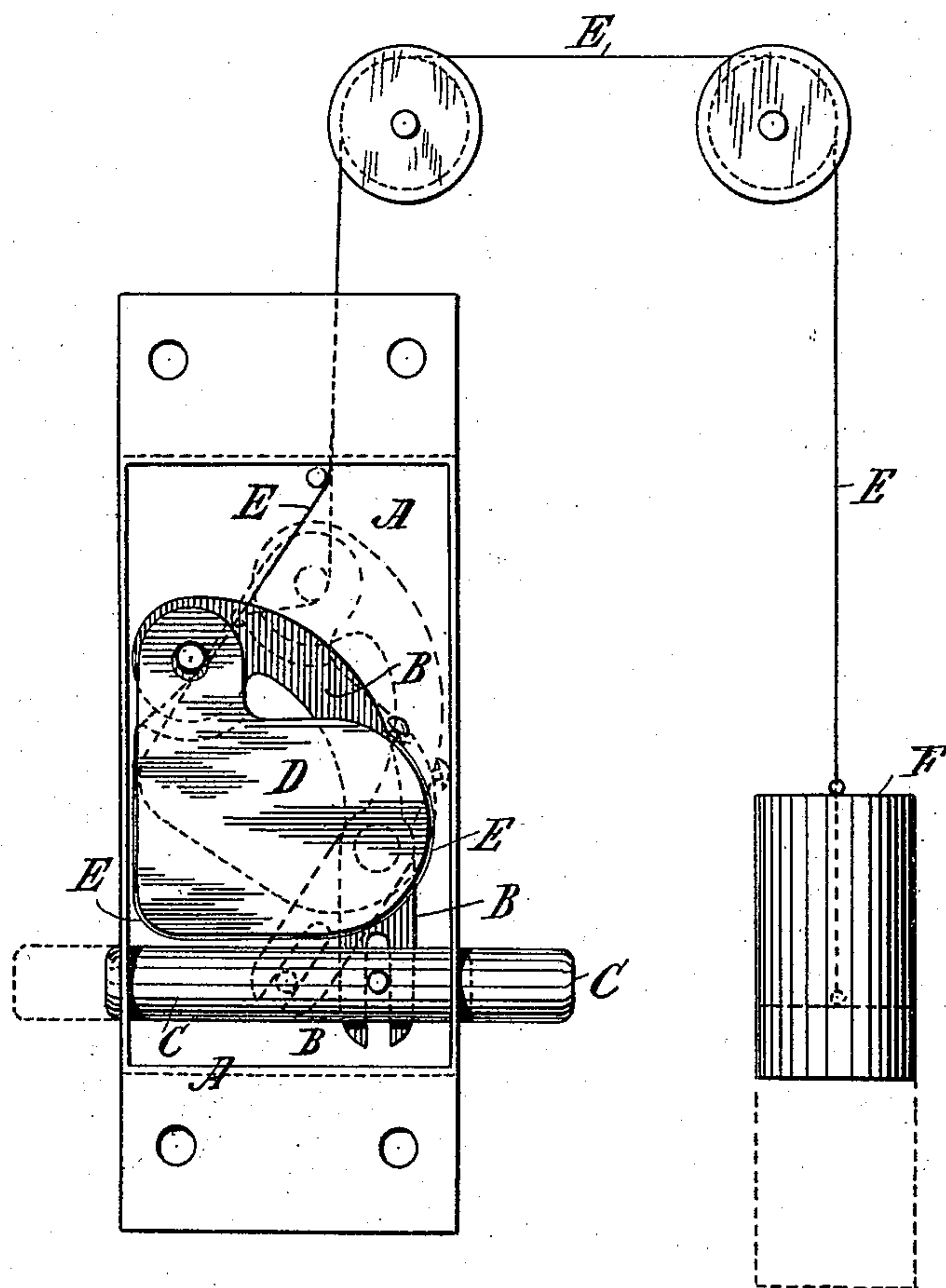


(No Model.)

J. CATHREIN.
BOLT.

No. 497,628.

Patented May 16, 1893.



Witnesses:

Percy C. Bowen.
John C. Wilson.

Inventor:

Josef Cathrein,
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Attorneys.

UNITED STATES PATENT OFFICE.

JOSEF CATHREIN, OF TUNSBROCK, AUSTRIA-HUNGARY.

BOLT.

SPECIFICATION forming part of Letters Patent No. 497,628, dated May 16, 1893.

Application filed December 10, 1892. Serial No. 454,721. (No model.)

To all whom it may concern:

Be it known that I, JOSEF CATHREIN, a subject of the Emperor of Austria-Hungary, and a resident of the city of Tunsbruck, in Austria-Hungary, have invented certain new and useful Improvements in Door-Locks, of which the following is a specification.

This design relates to a door lock which can be unlocked from any place of a room for instance from the bed or from the table by means of a cord.

The accompanying drawing shows an internal view of this door lock.

In the casing A a lever B is pivoted which at one end is connected to the bolt C and at the other end to a weight D. A cord E is secured to this weight passing out of the casing and leading to any desired place of the room where a weight F is attached to the same. The weights F and D are so calculated with reference to the frictional resistances that both weights F and D remain stationary in any position, but that any movement of the weight F produced by hand causes a corresponding movement of the weight D, the same as in some lamp suspensions. The weight D is so arranged with relation to the fulcrum of the lever B that it holds the same in the position indicated by full lines in which the bolt does not lock the door as long as the weight F is raised, but when the weight F is drawn down it turns by means of the cord E the lever B into the position indicated by dotted lines in which the bolt locks the door. The bolt is therefore home as long as the weight F at the

end of the cord is drawn down. When the bolt has to be drawn back to allow the door to be opened, it is only necessary to raise the weight F by hand whereupon the weight D turns the lever B in the manner described so that the bolt releases the door. The bolt C may be provided with a handle to enable it to be actuated directly. Instead of the weight D a spring may be used if desired.

I claim—

In a door lock to be operated from any given point of a room, the combination with the weight F, and cord E passing over elevated supporting pulleys, one end of said cord connected to said weight F and the other end connected to the weight D and adapted to raise the same, of the weight D pivotally attached to one end of the curved lever B, the curved lever B pivoted near its central portion to the casing E, having a stud at its upper end to engage a lug on the upper side of the weight D, and being forked at its lower end to engage a stud on the bolt or latch C; and the bolt or latch C projecting through holes in opposite sides of the casing E; the said weight D, lever B, and bolt C all being arranged within the casing E, and operating substantially as and for the purposes described.

In testimony whereof I have affixed my signature in presence of two witnesses.

JOSEF CATHREIN.

Witnesses:

T. GEORGE ROUSH,
W. B. MURPHY.