H. M. MOFFETT.

Door-Bolt.

No. 203,360. Patented May 7, 1878.

Fig. 1

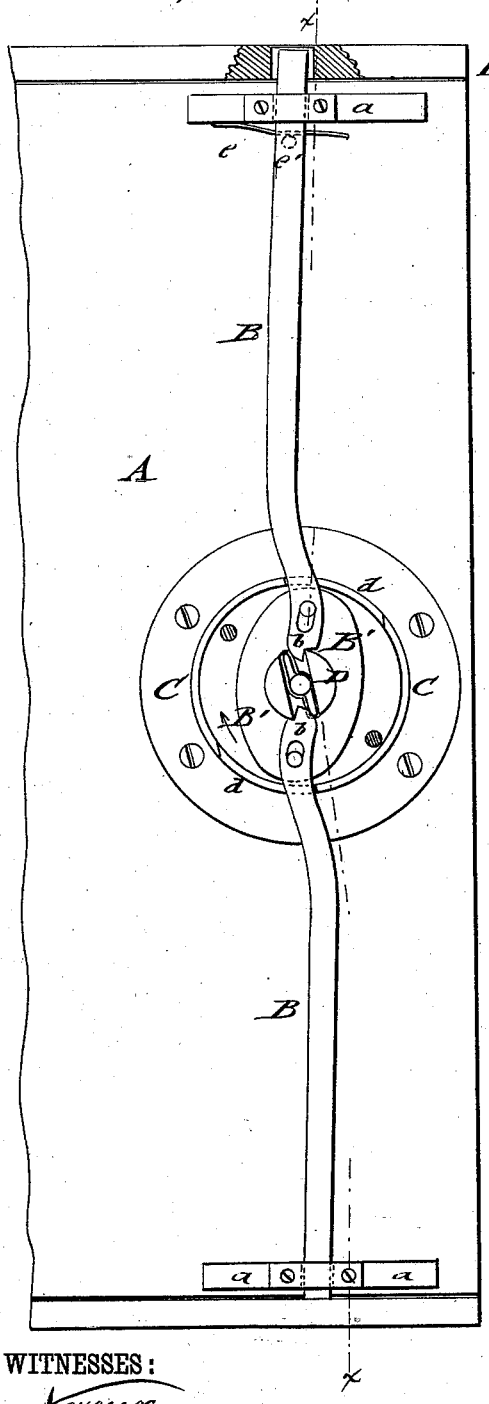
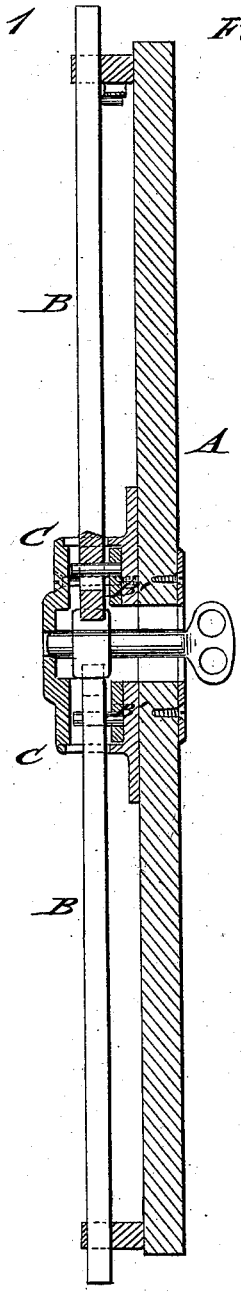



Fig. 2




WITNESSES:

C. Neveux

C. Sedgwick

INVENTOR:

H. M. Moffett

BY Munn & Co

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

HOWARD M. MOFFETT, OF CLEVELAND, OHIO, ASSIGNOR TO HIMSELF, JOHN C. HATHAWAY, AND JULIUS A. MOFFETT, OF SAME PLACE.

## IMPROVEMENT IN DOOR-BOLTS.

Specification forming part of Letters Patent No. **203,360**, dated May 7, 1878; application filed April 4, 1878.

*To all whom it may concern:*

Be it known that I, HOWARD M. MOFFETT, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in Bolting Doors, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front elevation of my improved device for bolting heavy double or single doors, shown with cap-plate removed; and Fig. 2 is a vertical transverse section of the same on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention relates to an improved device for bolting the doors of barns, warehouses, or other buildings requiring heavy double or single doors.

The lock may be used as an upright lock as well as a horizontal lock, as desired, and is opened from the outside by a key; but may be readily opened from the inside by lifting the upper locking-bolt, and then turning the lock.

The invention consists of guided locking-bolts, that are pivoted at their slotted inner ends to an eccentric-cam, which is revolved by a wing-shaped key, while a raised center portion of the cam serves, in connection with the recessed inner ends, for retaining the bolts in locked position.

Referring to the drawing, A represents a barn or other heavy door; B, the locking-bolts that extend over the full length or width of the door, according as the locking device is used in vertical or horizontal position.

The locking-bolts are guided near the upper and lower ends, or near the sides of the door, by suitable guide-staples or bands *a*, and projected into connecting-sockets of the door-frame.

The locking-bolts are slotted near their inner ends and applied to pivots of a double cam, B′, that swings in a circular casing, C, of the lock, and is operated by projections of the key engaging corresponding recesses of the double cam.

A raised cylindrical and centrally-recessed center portion, D, of the double cam serves for the purpose of retaining the bolts in position when extended, to lock the door, the recessed cylindrical sections locking onto end recesses *b* of the locking-bolts, so as to retain them firmly in position.

The lock-case C is provided with diametrical guide-slots *d*, to admit the swinging of the locking-bolts therein.

The lock may be readily opened from the inside without the key by raising the upper bar or bolt, so that its lower recessed end clears the raised portion of the double cam, and then pushing the bolt and cam to one side. From the outside it is opened by a key in the customary manner.

On double doors a lock with a key will be used on that door which is first swung open, and one without a key on the other door.

When the bolts are used horizontally at the right or left hand, a spring, *e*, is used in connection with a pin, *e′*, of one of the bolts, so as to facilitate the opening of the bolts, and also cause their being retained in locked position.

Heavy doors may in this manner be securely locked by means of a very simple bolting attachment.

I am aware that it is not broadly new to operate a pair of independently and oppositely sliding door or window bolts by means of a centrally-located actuating device, to which the inner ends of the bolts are connected.

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

The combination, with a revolving double cam having centrally-recessed and raised cylindrical portion and key-hole, of guided bolts pivoted thereto and locked by end recesses or seats at their inner ends, substantially as and for the purpose set forth.

HOWARD MARKUS MOFFETT.

Witnesses:
JOHN B. COFFINBERRY,
W. B. SMITH.