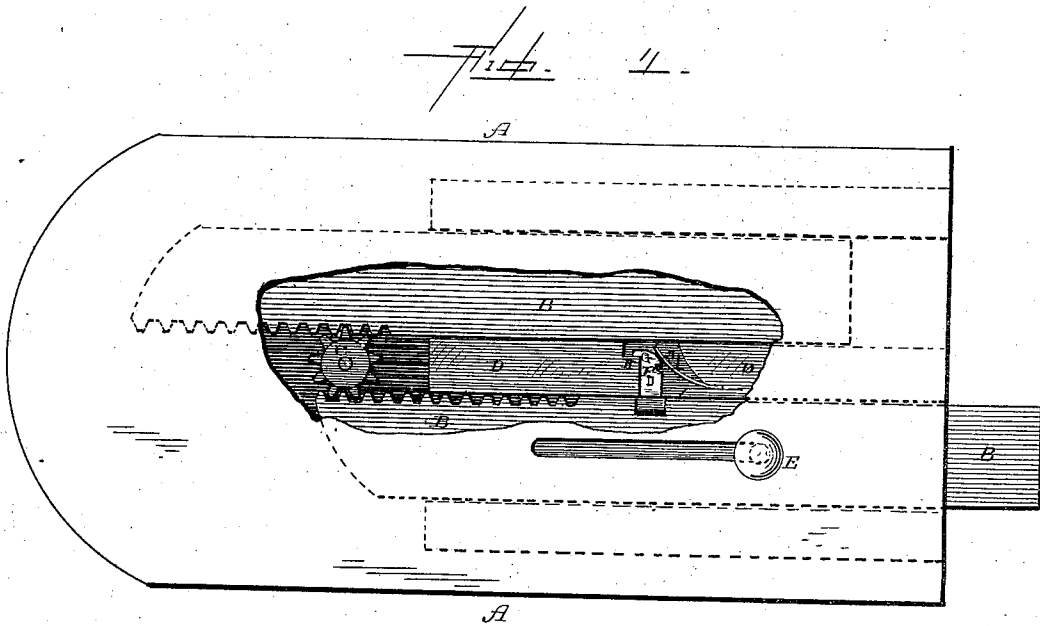
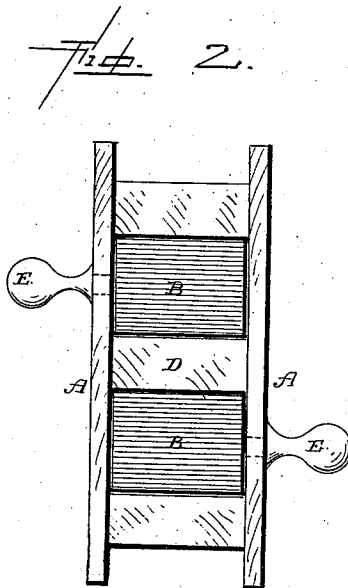


(Model.)

H. CLEMONS.
DOUBLE ACTING BOLT.

No. 373,338.

Patented Nov. 15, 1887.



WITNESSES.
R. D. Gardner
Edm. P. Ellis,

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Henry Clemons,
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UNITED STATES PATENT OFFICE.

HENRY CLEMONS, OF CASTALIA, OHIO.

DOUBLE-ACTING BOLT.

SPECIFICATION forming part of Letters Patent No. 373,338, dated November 15, 1887.

Application filed May 20, 1887. Serial No. 238,913. (Model.)

To all whom it may concern:

Be it known that I, HENRY CLEMONS, of Castalia, in the county of Erie and State of Ohio, have invented a certain new and useful Improvement in Double-Acting Bolts; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in double-acting bolts; and it consists in the combination of a suitable inclosing-frame, two parallel bolts having the cogs upon their inner faces and provided with operating-knobs, an operating-wheel which engages with the teeth of both the bolts, a partition-block which is placed between the bolts, and a locking mechanism, whereby the bolts can be rigidly locked in position, as will be more fully described hereinafter.

The object of my invention is to provide a bolt which is especially adapted for securing the doors of barns and outside buildings, but which may be attached to any door, and in which two bolts move in opposite directions when either is moved, so that the knob must be at the center of the slot in which it moves when the door is unlocked, in contradistinction to being at the end, as in ordinary bolts, to provide a means for locking the bolts, and which bolts can be operated from either side of the door.

Figure 1 is a plan view with one side of the casing broken away. Fig. 2 is an edge view.

A represents the casing, B the bolts, and C the cog-wheel or pinion. The front ends of the bolts B are separated by the partition D and their rear ends by the pinion C, both of which form guides for the bolts. Connected to each of the bolts are the knobs E, by means of which they are operated, and which extend from opposite sides of the casing, so that they may be operated either from the inside or outside of the building to which the bolts are attached. The bolts are provided upon their inner faces or sides with cogs for engaging the pinion C.

It will be seen that when either one of the bolts is moved in one direction the other is moved in the opposite direction through the medium of the pinion C.

In order to unlock the door, it will be necessary to move the knob to the center of the slot which is made in the casing, for if it is moved beyond this point in either direction one bolt will be withdrawn while the other is projected into the frame and the door remain locked. This construction will prevent any one who is not familiar with the lock from opening the door, as the natural and usual method would be followed, and the knob pushed first to one side and then the other, and hence the door could not be opened.

In order to lock the bolts B, I provide the locking-bolt F, which is placed upon the center piece, D. This bolt is provided with the hook or projection G, which catches upon the shoulder H and holds the bolt in an unlocked position. When the locking-bolt is thrown to one side by means of a suitable key far enough to disengage the hook G from the shoulder H, the locking-bolt F is projected into a recess formed in one of the bolts B by the spring I and held there until forced upward by means of a key. It is only necessary to provide a locking device for one of the bolts B, as one cannot be moved independently of the other. By means of the hook G upon the locking-bolt F it can be forced upward by a suitable key and the bolts B allowed to move freely back and forth.

Having thus described my invention, I claim—

The combination of the frame-work provided with slots upon opposite sides with two bolts, B, provided with cogs on their inner faces, an operating-wheel placed between the two bolts, so as to engage with them, a partition, D, placed between the bolts and provided with a recess to receive the locking mechanism, the locking-bolt F, provided with a hook or projection, G, at its upper end, and the spring I, one of the bolts B being provided with a recess for the end of the locking-bolt F to catch in, substantially as shown and described.

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

HENRY CLEMONS.

Witnesses:

HENRY MOYER,
Z. T. BRUSH.