No. 635,031. Patented Oct. 17, 1899.

J. G. BAKER.

BOLT.

(Application filed Apr. 25, 1899.)

(No Model.)

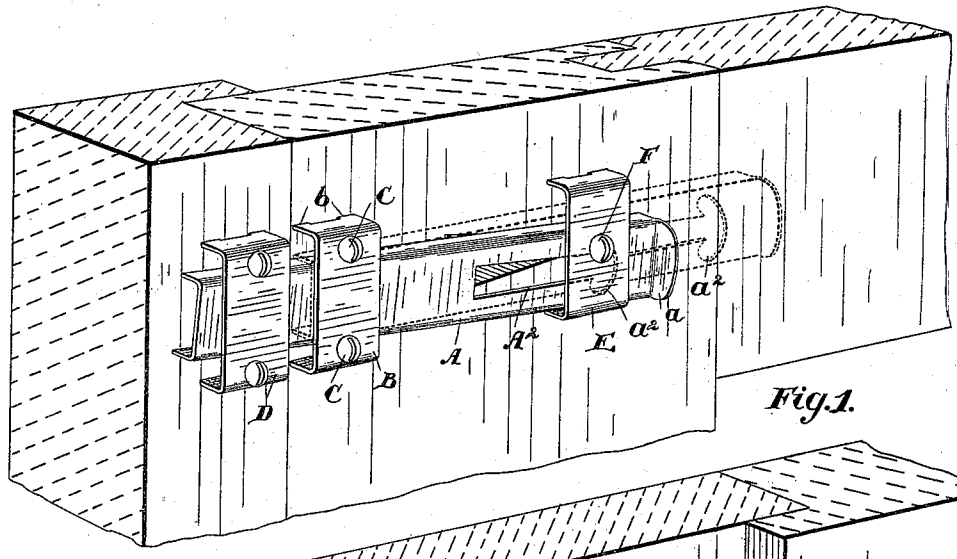


Fig. 1.

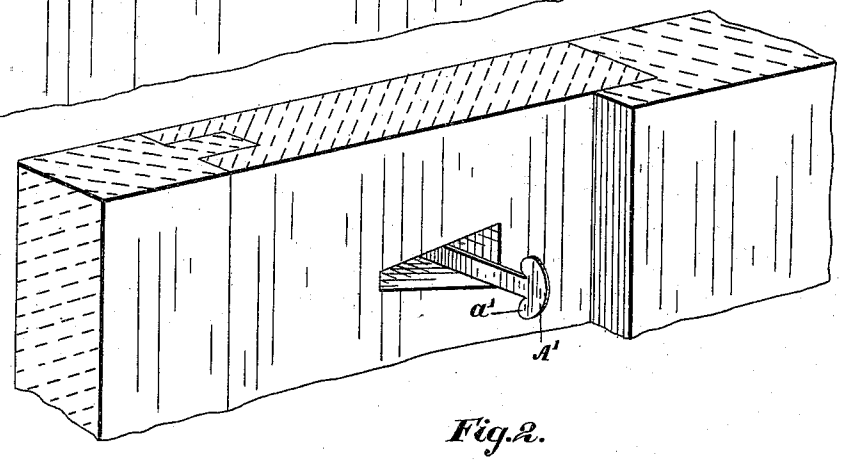


Fig. 2.

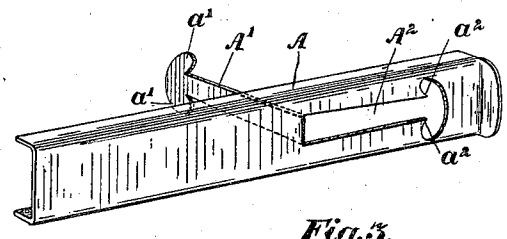


Fig. 3.

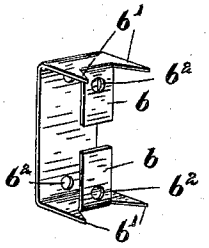


Fig. 4.

Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN GERRARD BAKER, OF CANTERBURY, ENGLAND.

BOLT.

SPECIFICATION forming part of Letters Patent No. 635,031, dated October 17, 1899.

Application filed April 25, 1899. Serial No. 714,415. (No model.)

To all whom it may concern:

Be it known that I, JOHN GERRARD BAKER, gentleman, of Blean, Canterbury, England, have invented certain new and useful Improvements in Bolts, of which the following is a specification.

My invention relates to improvements in bolts; and the object of the invention is to design a form of bolt particularly adaptable for gates and outhouse-doors, which may be operated from either side of the gate or door; and it consists, essentially, of a bolt formed up of a single sheet of metal U-shaped in cross-section and having struck out of it, at right angles thereto, a tongue with lateral end-projecting ears, leaving a corresponding slot, such tongue being designed to extend through a slot in the door and the bolt being held in suitable straps, the screw of one of which extends through a slot in the bolt and is designed to limit the movement thereof in the manner hereinafter explained.

Figure 1 is a perspective view of a portion of a gate and the side bar thereof, showing my bolt locked in full lines and open in dotted lines. Fig. 2 is a perspective view from the opposite side of the gate or door, showing the operating-tongue to manipulate the bolt from this side of the door. Fig. 3 is a detail of the bolt. Fig. 4 is a detail of the supporting straps or keeper.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is the bolt, which is preferably formed out of a single piece of sheet metal substantially U-shaped in cross-section and is provided with an end lip *a*.

A′ is a tongue struck out of the bolt, one end only, however, being severed. The tongue A′ is so struck out as to leave laterally-projecting ears *a*′ on each side. The slot A^2 is thus formed in the bolt with laterally-projecting portions a^2.

B is the retaining strap or keeper for supporting the bolt next the closing side of the door. The retaining-strap B is also preferably formed out of one piece, substantially as shown, and has inwardly-extending ears *b* parallel to the face of the retaining metal strap.

b′ *b*′ are spikes which are formed upon each side of the ears *b* and are designed to project into the wood of the door, so as to hold the retaining-plates securely in position. The spikes *b*′ are at right angles to the face of the retaining-strap.

b^2 b^2 are holes which are made both in the face and ears *b* and are designed to receive the securing-screws C.

The keeper D on the side frame of the gate is formed in exactly the same way as the retaining-strap and also held in position in the same way. The retaining-strap E is also formed in the same way, with the exception that it is secured in the center only by one screw F, which extends through the slot A^2 of the bolt.

The bolt is shown in Fig. 1 shot, in which position the screw F extends through the lateral extension a^2 of the slot A^2, and thereby the door is held locked. In order to withdraw the bolt from the outside of the door, such bolt has to be slightly raised by catching hold of the lip *a* and then withdrawn, the edges of the slot passing rearwardly past the screw F. This same operation may be performed at the opposite side of the door by manipulating the extending end of the right-angular tongues A′. It will thus be seen that my bolt is very convenient by being enabled to be operated on both sides of the door and serve the double purpose of being a latch as well as a bolt.

What I claim as my invention is—

1. A bolt comprising a sheet-metal plate, a tongue struck out of said plate leaving a slot having lateral extensions at one end, guiding means for the bolt and the screw extending through the slot, substantially as described.

2. In combination, the retaining-straps, the sheet-metal bolt guided therein, a laterally-extending tongue struck out of the plate leaving a slot therein, a screw engaging said slot, the end of said bolt being turned in an opposite direction to said tongue.

3. A bolt comprising a U-shaped plate having formed out of same a right-angular tongue with end projections, so connected to the plate as to leave a slot of similar formation having lateral recesses, and a lip formed on the end of the plate, and suitable retaining-straps and keepers for the bolt one of which is provided with a screw extending through

the slot in the bolt as and for the purpose specified.

4. The combination with a bolt formed as described, of the retaining-plates having the spikes at right angles to the face of the strap and ears parallel with same, and screws extending through holes in the straps, so as to retain them in position as and for the purpose specified.

JOHN GERRARD BAKER.

Witnesses:
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