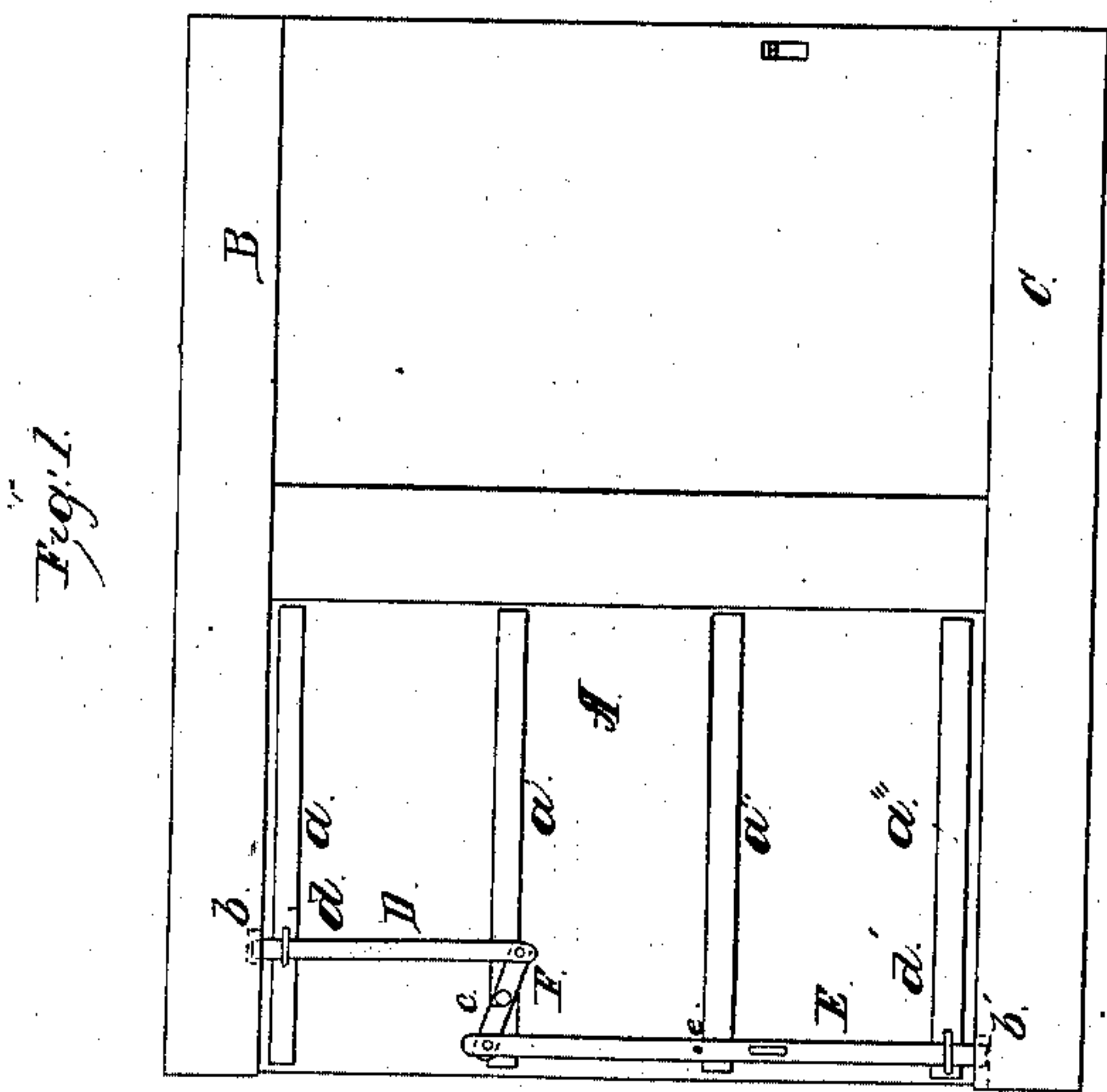
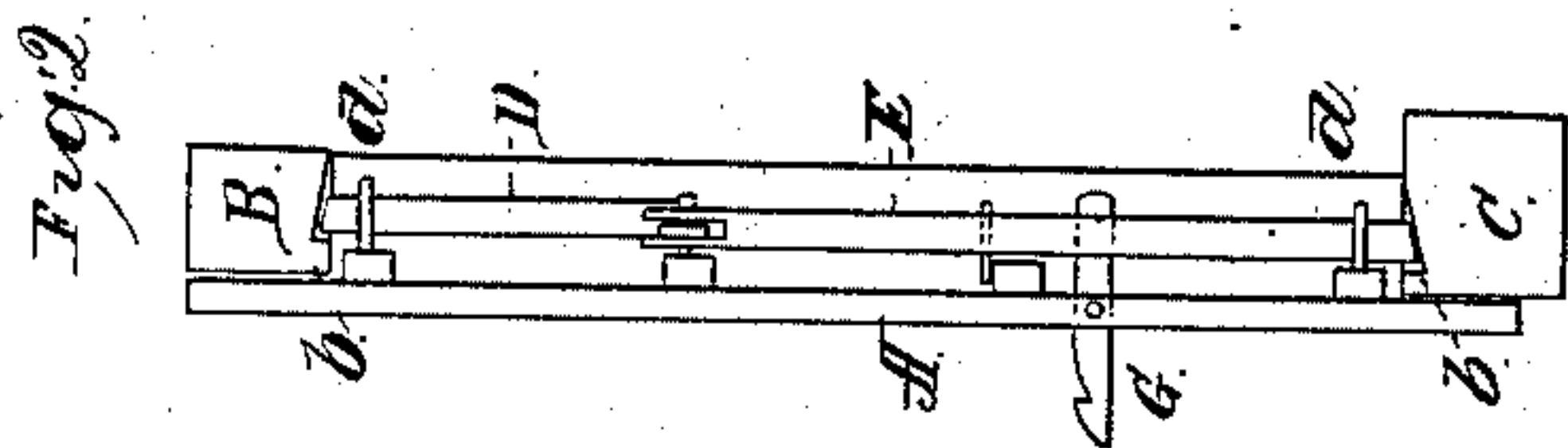
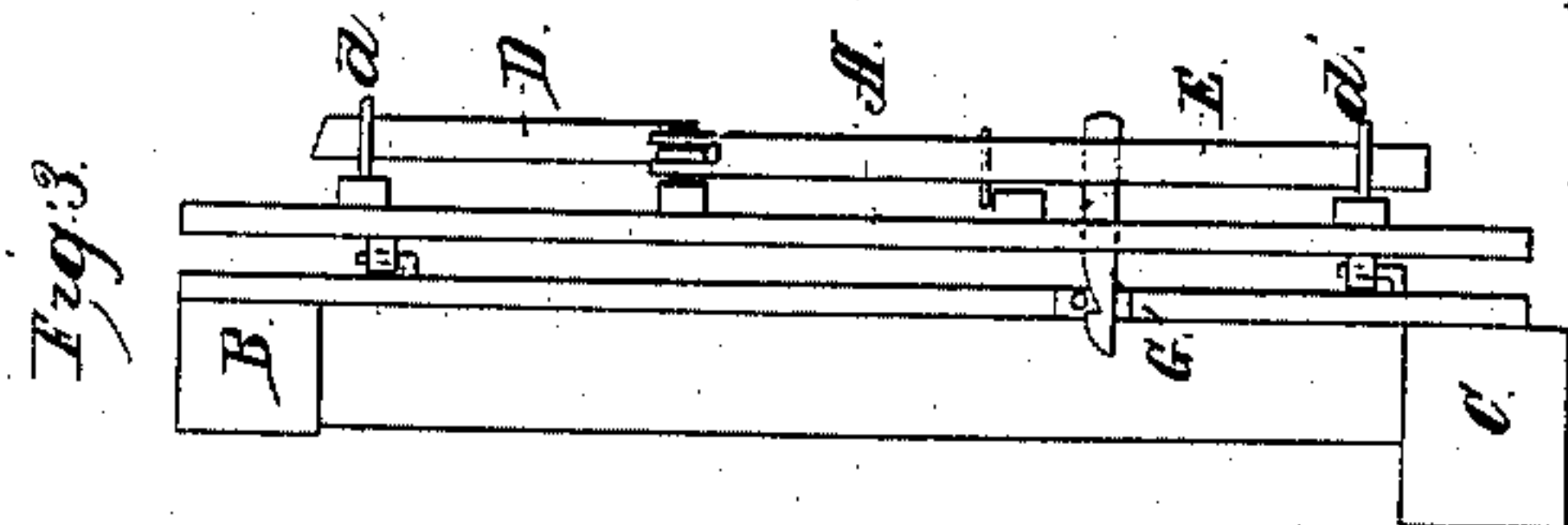


A. H. Sherwood,

Door Bolt.

N^o 69,033.

Patented Sep. 17, 1867.



Witnesses:
J. W. B. Conington
Jas. A. Service.

Inventor:
A. H. Sherwood
Per [Signature] Attorney

United States Patent Office.

ARTHUR H. SHERWOOD, OF SOUTHPORT, CONNECTICUT.

Letters Patent No. 69,033, dated September 17, 1867: antedated September 7, 1867.

IMPROVED DOOR-BOLT.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ARTHUR H. SHERWOOD, of Southport, in the county of Fairfield, and State of Connecticut, have invented a new and improved Self-Acting Bolt for Barn and Carriage-House Doors; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a view of the inside of a door, showing it closed and held by my bolt.

Figure 2 is a view showing the position of the bolts and catch when the door is closed.

Figure 3 is a view showing the same when the door is open.

Similar letters of reference indicate like parts.

My invention consists in the employment of two bolts, connected together by a toggle, so arranged that the lower one, the heavier of the two bolts, (the one being intended for holding the top and the other the bottom of the door,) will be self-acting, the heavier bolts being provided with a catch or the like for operating the bolts from the outside of the door, and for automatically catching upon a hook or the like secured to the siding of the barn or other building for holding the door open.

A designates a door, hinged in the usual manner, so as to swing open against the outside of a barn or other building. C is the sill of a door and B the lintel. In the present instance the inside of the barn-door is provided with buttons *a a' a'' a'''*, to which my bolt is shown as being attached. D and E represent the two parts of the bolt. The part D is about half the length of the part E, and is intended for fastening the upper part of the door, by throwing its end into a groove or mortise, *b*, in the lintel, and the part E is intended for fastening the lower part of the door, by allowing its end to fall into a groove or mortise, *b'*, in the sill of the door. The comparative lengths of the bolts, as given, is not essential. It is necessary, however, in order to have the bolt, as a whole, self-acting, to have the lower bolt E heavier than the other bolt D. The ends of the parts D and E are pivoted to a toggle, F, which works on a fulcrum-pin, *c*, secured to the button *a'*. The two parts D E of the bolts are guided by staples *d d'*, through which they pass. A stop-pin, *e*, is provided, which strikes against the batten *a''* when the door is thrown open, so as to prevent the part E of the bolt falling down too far. A catch, G, is secured to the part E of the bolt which passes through a slot in the door, as shown in fig. 2. This serves as a means for raising the part E of the bolt for withdrawing it and the part D from the groove or mortises, in order to release the door, and it also serves as a means for holding the door open by its catching under a staple or pin secured to the side of the barn.

From the above description it will be seen that the bolt is self-acting. So soon as the bolt is released by raising the catch G, the heavier bolt E will fall down and bring the catch in a proper position to catch under the staple to hold the door open. Now, by merely pushing the door to, the respective parts of the bolt will be crowded in to allow their passing the inclined face of the sill and lintel, and then immediately be thrown by the weight of the part E into their respective grooves or mortises in the sill and lintel of the doorway.

What I claim as new, and desire to secure by Letters Patent, is—

The catch G, in combination with the bolt D E F, substantially as and for the purpose specified.

The above specification of my invention signed by me this 2d day of February, 1866.

ARTHUR H. SHERWOOD.

Witnesses:

M. M. LIVINGSTON.