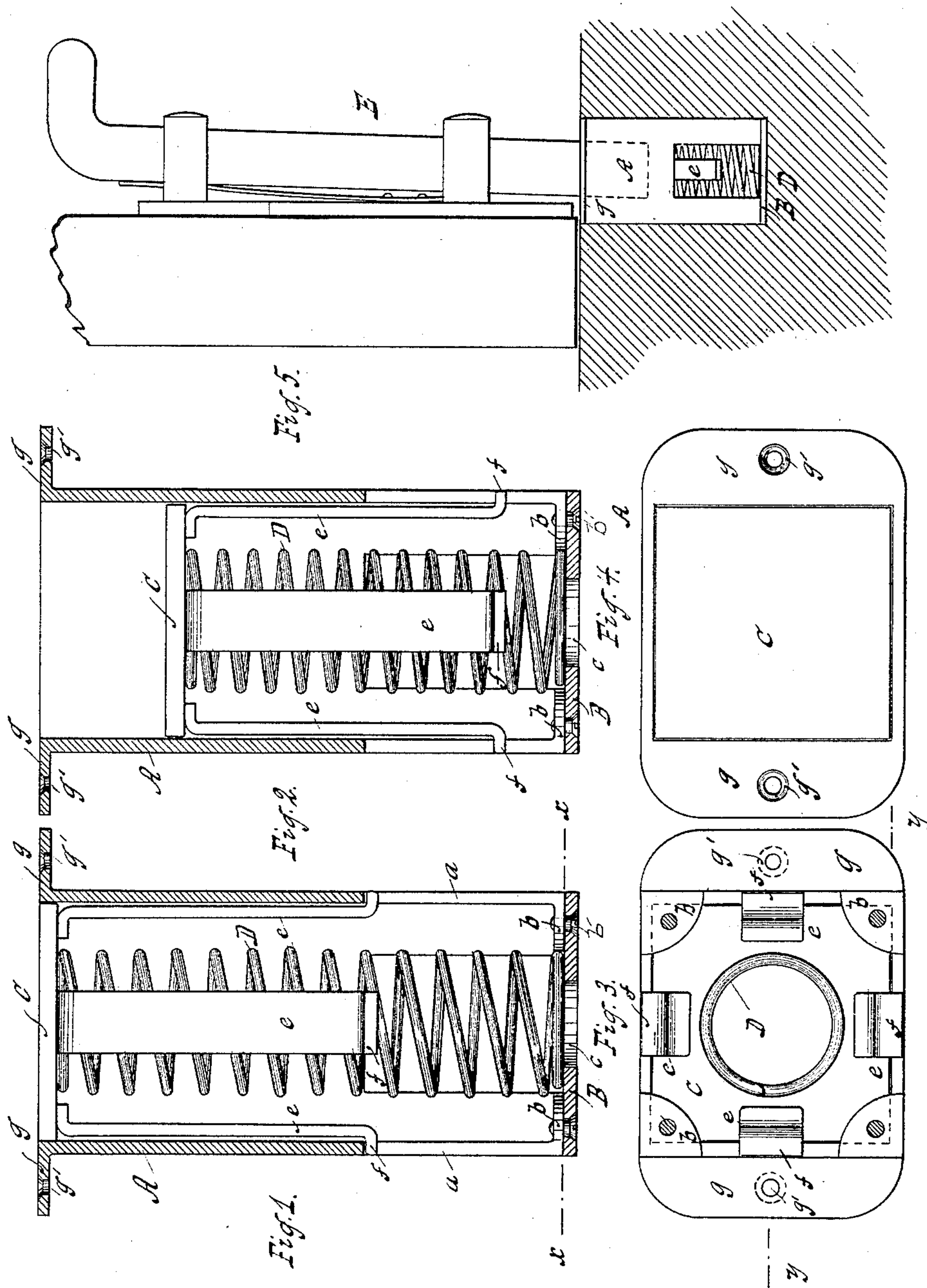


(No Model.)

E. LUCAS.  
BOLT.

No. 327,887.

Patented Oct. 6, 1885.



WITNESSES:  
*Attaber du Faur, Jr.*  
*William Miller*

INVENTOR  
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ATTORNEYS



# UNITED STATES PATENT OFFICE.

EUGENE LUCAS, OF NEW YORK, N. Y.

## BOLT.

SPECIFICATION forming part of Letters Patent No. 327,887, dated October 6, 1885.

Application filed January 29, 1885. Serial No. 154,373. (No model.)

*To all whom it may concern:*

Be it known that I, EUGENE LUCAS, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Bolt-Sockets, of which the following is a specification.

My invention consists in the combination, with a bolt-socket, of extensions or legs formed on said socket, a spring-supported follower, which fits the socket and can move longitudinally therein, and stops which are secured to the follower and adapted to engage the lower edges of the socket; and also in the combination, with a bolt-socket, of extensions or legs formed on said socket, a spring-supported follower, which fits the socket and can move longitudinally therein, stops which are secured to the follower and adapted to engage the lower edges of the socket, and a disk secured to the extension or legs formed on the socket and provided with a hole or holes.

In the accompanying drawings, Figure 1 represents a longitudinal vertical section in the plane *y y*, Fig. 3, with the follower in its normal or upper position. Fig. 2 is a vertical section in the same plane, with the follower depressed. Fig. 3 is a transverse horizontal section in the plane *x x*, Fig. 1. Fig. 4 is a top view. Fig. 5 is a side view of the socket placed in position to receive a bolt.

In the drawings, the letter A designates the socket, which may be of a square, rectangular, circular, or any other suitable cross-section, and which is provided with extensions or legs *a*, to the lower part of which are secured webs *b*; or said webs may be cast integral with the extensions.

To the webs *b* is secured by means of screws *b'*, or by other suitable means, a disk, B, which is provided with a hole or holes, *c*, in order that any water which may enter the socket will readily pass away or soak into the floor-beams.

C is a follower, which snugly fits the socket, and is adapted to move up and down therein, said follower being supported on a spring, D, the lower end of which rests on the disk B, or else, if the disk is omitted, it rests directly

on the floor-beam. To the follower C are secured, either by screws or solder, legs which form stops *e*, and in the drawings, which show a square socket, four of said stops are used, and the lower ends of the stops are bent, so as to project outward into the space between the extensions, but not beyond the outer surface of the same. The stops *e* are of such a length that when the follower C is flush with the upper edges of the socket the projecting portions *f* engage the bottom edges of the socket and the follower C is stopped. Instead of bending the stops lugs may be formed on the same, or pins or their equivalent may be secured thereto. The stops also serve to steady the follower C and prevent the same from turning or bending.

The top of the socket is provided with flanges *g*, which are sunk in the floor and secured by screws at *g' g'* in the usual manner, whereby the socket is retained in place. In Fig. 5 the socket is shown in position, and in this figure E is the bolt, which is secured to the door in the usual manner, and is in its locking position.

The object of my bolt-socket is to prevent the filling of the hole for the reception of the bolt with dust, &c. All dust or other matter which settles on the follower, when the same is in its depressed position, is promptly ejected when the bolt is withdrawn, and as the follower fits snugly in the socket no dirt can pass between the same and the socket and into the socket.

I am aware that bolt-sockets of a similar description and purpose have been made prior to my invention, but none of these absolutely prevented the dust from settling in the socket and in time filling the same.

I do not broadly claim devices which prevent the entrance of dust into the bolt-socket; but

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

1. The combination, substantially as hereinbefore described, with the socket A, of the extensions or legs *a*, formed on said socket, the spring-supported follower C, which fits the socket and can move longitudinally there-

in, and the stops *e*, which are secured to the follower and adapted to engage the lower edge of the socket.

2. The combination, substantially as herein-  
5 before described, with the socket A, the extensions or legs *a*, formed on said socket, the spring-supported follower C, which fits the socket and can move longitudinally therein, the stops *e*, which are secured to the follower  
10 and adapted to engage the lower edges of the

socket, and the disk B, secured to the extensions or legs *a*, formed on the socket, and provided with a hole or holes, *c*.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

EUGENE LUCAS. [L. S.]

Witnesses:

W. HAUFF,

A. FABER DU FAUR, Jr.