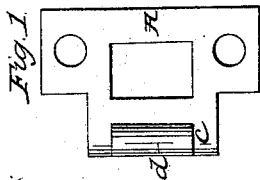
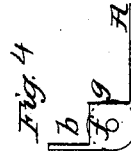
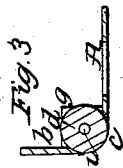
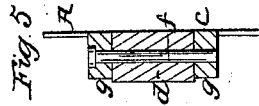


G. M. Morris,

Lock Strike.

No 47,741.

Patented May 16, 1865.



Witnesses

H. P. Hale Jr.  
H. C. Fisher.

Inventor:

George M. Morris

by his Attorney,  
R. H. Ledy



# UNITED STATES PATENT OFFICE.

GEORGE M. MORRIS, OF ROXBURY, MASSACHUSETTS.

## SPRING-BOLT CATCH.

Specification forming part of Letters Patent No. 47,741, dated May 16, 1865.

*To all whom it may concern:*

Be it known that I, GEORGE M. MORRIS, of Roxbury, in the county of Norfolk and State of Massachusetts, have invented an Improved Spring-Bolt Catch for Doors; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings of which—

Figure 1 denotes a side elevation, Fig. 2 an end elevation, Fig. 3 a horizontal section, and Fig. 4 a top view, of it. Fig. 5 is a vertical section taken through roller of the said catch.

In the drawings, A denotes the catch-plate for a spring-bolt, such plate being provided with a recess or slot, *a*, for reception of the bolt. Furthermore, the plate has an angular lip or extension, *b*, which is shaped as shown in Figs. 2 and 4, and at its bend has a recess, *c*, for the reception of a roller, *d*. This roller is placed within the said recess *c*, and is supported by and so as to be capable of being revolved on a pin, *f*, held in place by two projections, *g g*, extended from the part *b* in manner as shown in the Figs. 3 and 4. The catch-plate so provided with the recessed extension, and the roller is to be secured to a door-frame in the usual manner, and so that

the beveled face of the end of the bolt of the door, while the latter may be in the act of being closed, may strike against the roller, the impact of the two and the movement of the bolt causing the roller to revolve, and thereby facilitate the backward movement of the bolt.

It is well known that owing to the friction generated between the impinging surfaces of a spring-bolt and its catch-plate it becomes very difficult, if not impossible, to effect the recession of the bolt during the act of closing the door carrying such bolt. By means of the roller applied to the catch-plate as set forth this friction will be greatly lessened.

I do not claim the broad use of a roller for diminishing friction, but

What I claim as my invention is as follows, that is to say—

The spring-bolt catch-plate made with the bolt and roller recesses, and having the friction-roller and the extension for supporting it, the whole being arranged substantially as hereinbefore explained.

GEORGE M. MORRIS.

Witnesses:

WILLIAM SEAVER,  
WM. SEAVER, JR.