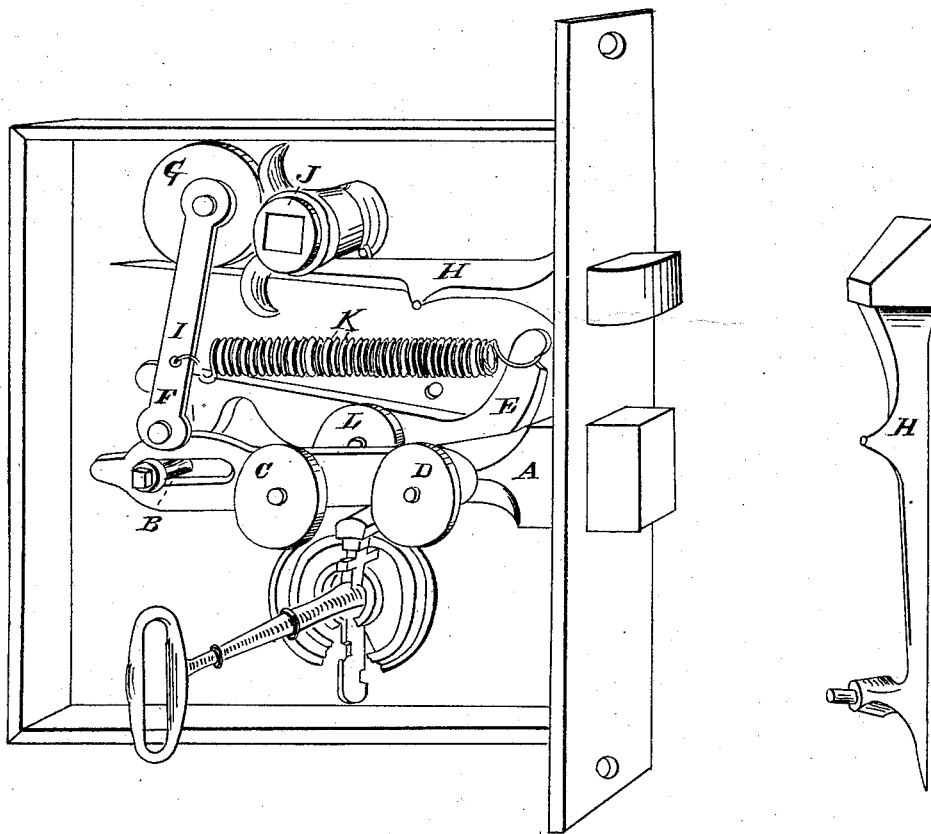


T. Whitehouse,

Lock.

N^o 783.

Patented June 14, 1838.



*Witnesses,
Joseph Simpson
Nathl Dearborn*

*Inventor:
Turner Whitehouse*

UNITED STATES PATENT OFFICE.

TURNER WHITEHOUSE, OF BOSTON, MASSACHUSETTS.

DOOR-LOCK.

Specification of Letters Patent No. 783, dated June 14, 1838.

To all whom it may concern:

Be it known that I, TURNER WHITEHOUSE, of Boston, county of Suffolk, and State of Massachusetts, have invented a new and useful Improvement in Locks, Whereby They Are Made of a More Simple Construction and Greater Durability in Use; and I do declare that the following is a full and exact description thereof.

10 The frame or case of the door lock may be made of sheet or cast iron or other material, in the usual form and manner, the bolt of the lock lettered A in the drawing annexed, to be of cast or other iron, the
15 tenoning part of which, to be about an inch long and half an inch thick, more or less, it then tapers on its front and rear sides to about one quarter of that thickness, for the purpose of allowing two friction rollers
20 on the front of it, to play between that and the box plate, and admit a dog and friction roller to play in the rear of it. On the extreme end of this bolt (A) is a shoulder affixed or cast on the back or
25 rear side, which shoulder, runs on the lock frame, to keep that part of the bolt in its correct position. A post lettered B in the drawing, is screwed into the lock frame at one end, on which lock bolt (A) slides, by
30 means of a mortise through the said bolt. On this post B, is a shoulder, at the front surface of bolt A, to keep the said bolt in its place, and also at the exact depth of the inside of the lock frame, is another shoulder,
35 made square on this post, for insertion into the movable or front lock plate, to keep the post firm in its place, and to prevent its turning, which post should be made accurate in all its parts, it being the sole supporter of the whole inside work of the lock.

40 On the lower front edge of bolt (A) are two cast or other metallic friction rollers, lettered (C, D,) on which the key plays when operating, the pivots for which rollers, are cast or affixed on the said bolt. At the
45 back or rear of bolt (A) is dog (E), made of cast or other iron, about one sixteenth of an inch in thickness, this dog plays on a

pivot, which is cast or affixed to the rear of bolt (A) at about one inch from its tenoning edge, or the said dog (E) may be affixed to the lock plate as usual, or in a variety of other ways. On this dog is placed a friction roller (L) about midway of its length, on which roller (L) the key will
55 play, to raise the extreme shoulder of the dog over the post (B). On the upper arm of dog (E), is a spiral wire (K) or other spring affixed, to return the dog to its original position when in action, which can be
60 applied equally advantageously to a one or two bolt door lock. On the extreme end of lock bolt (A) is an arm lettered (F) two inches long more or less, playing on a pivot, the said pivot, cast or affixed to said bolt
65 (A) or it may be affixed to post (B) or in any other manner. The said arm (F) reaches a friction roller (G) above the latch bolt (H) the said roller (G) plays on a pivot which is cast or affixed to an arm on
70 latch bolt (H) which arm and pivot is represented in a section of the drawing hereunto annexed. At about one third the distance from the lower end of arm (F) the spiral spring, lettered (K) which re-
75 turns dog (E) to its original position is affixed, as shown at (I) which spring returns latch bolt (H) to its office, thereby accomplishing these two purposes. The latch bolt (H) is operated upon by a cam formed
80 tumbler, lettered (J) in the drawing.

What I claim as my invention and for which I desire Letters Patent, is—

The application of the spiral spring, as acting on the dog (E) and arm (F) in returning the dog and latch bolt to their original position, and to the post (B) for its form, construction and office, in securing the whole lock work in their respective places, and also of arm (F) as combined with the
90 spiral spring, latch and lock bolt.

TURNER WHITEHOUSE.

Witnesses:

JOSEPH SIMPSON,
NATH DEARBORN.