

HENRY SANDERS.
Improvement in Door-Latches.

No. 114,608.

Patented May 9, 1871.

Fig. 1

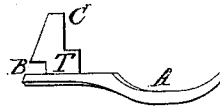
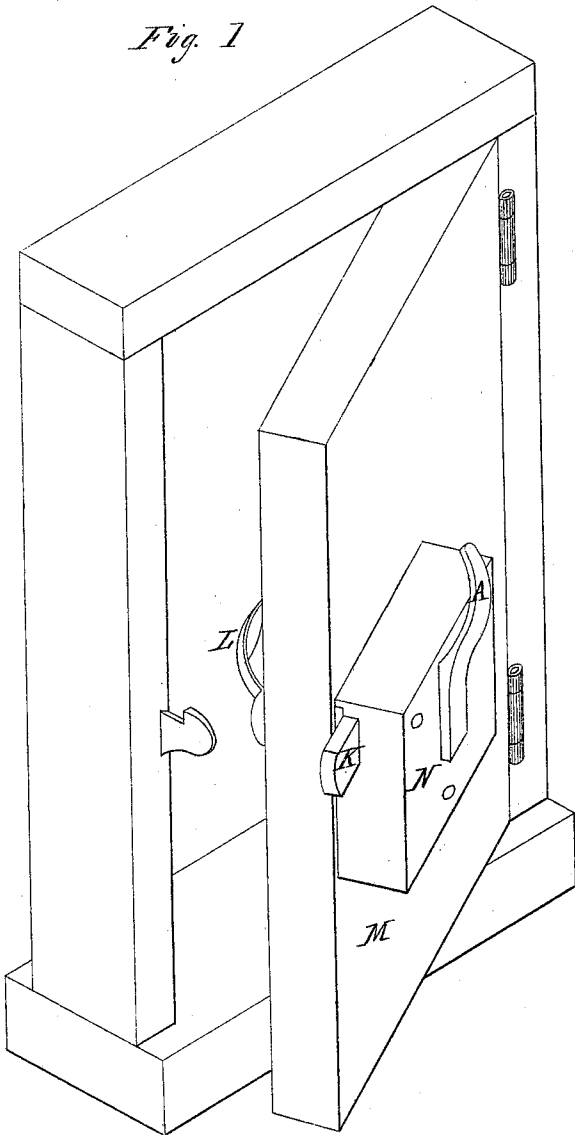


Fig. 2

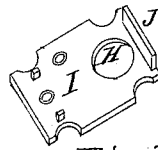


Fig. 3

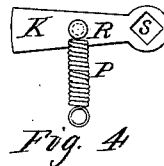
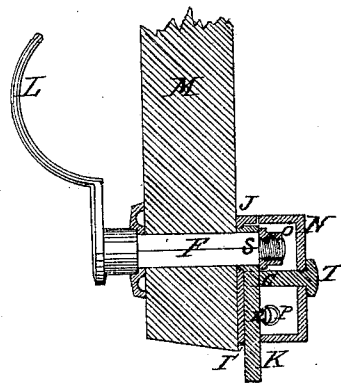


Fig. 4

Fig. 5



WITNESSES

Horace B. Miller
W. H. Bradley

INVENTOR

Henry Sanders

United States Patent Office.

HENRY SANDERS, OF UTICA, NEW YORK.

Letters Patent No. 114,608, dated May 9, 1871; antedated May 2, 1871.

IMPROVEMENT IN DOOR-LATCHES.

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

I, HENRY SANDERS, of Utica, in the county of Oneida and State of New York, have invented certain Improvements in Door-Latches, of which the following is a specification.

My invention relates to door-latches in which the construction and arrangement are such as to effect the releasing of the latch and opening of the door at one operation of pulling of the handle, and consists in a peculiar construction and arrangement of parts, as will more fully appear by the following specification and claim.

Description of the Accompanying Drawing.

Figure 1 is a perspective view of the latch attached to a door that is hinged to a frame for the purpose of showing its operation.

Figure 2, a side view of the bent lever.

Figure 3, a view of the latch-plate.

Figure 4, a side view of the latch.

Figure 5, a horizontal section made through the latch and door in the region of the center of latch K, fig. 1.

General Description.

A is the handle of lever T, through which motion is communicated to latch K by reason of its fulcrum being at the point where slot B embraces a portion of case N, and the shorter arm, C, extending under latch K.

Case N forms a covering to the latch, and serves as a bracket to hold lever T, and, in connection with plate I, forms a guide for latch K to operate in.

The latch-plate I has a hole at H for the reception of hub S of latch K, and a raised projection at J to fill the opening in case N opposite the one occupied by latch K. Plate I is reversible, so that the latch can be used as either right or left-hand.

Shaft F is square where it enters latch K, and terminates at that end with a nut, O, which holds the shaft and latch to their places; at its other end it terminates with an offset-handle, L, to keep the operator's hand at a sufficient distance from the door-frame to avoid contact therewith in opening and closing the door.

Latch K has a stud, R, to which is attached one end of a coiled spring, P; the other end of the spring should be fastened to the door in such a manner as to draw the latch down.

I claim as my invention—

The lever T, with outwardly-curved handle A, slot B, and arm C, extending under pivoted latch K, to which latter is attached a spring, P, all arranged and operating as herein set forth.

HENRY SANDERS.

Witnesses:

WILLIAM D. ADAMS,
EDWIN EGGNY.