

(Model.)

M. E. HAMILTON.

COMBINED LOCK AND LATCH.

No. 282,886.

Patented Aug. 7, 1883.

Fig. 1.

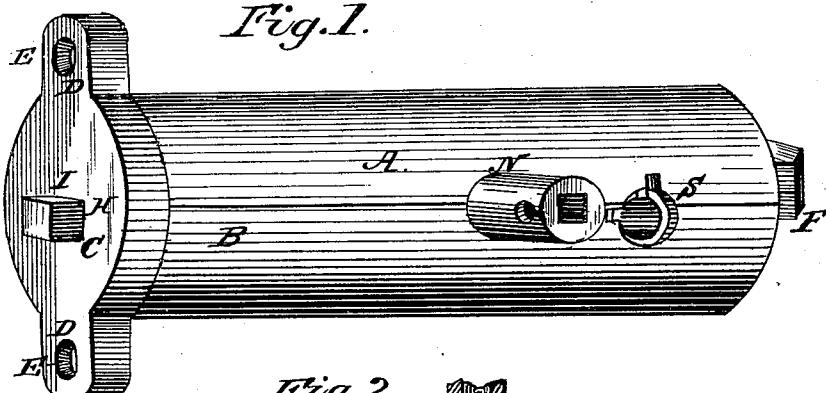


Fig. 2

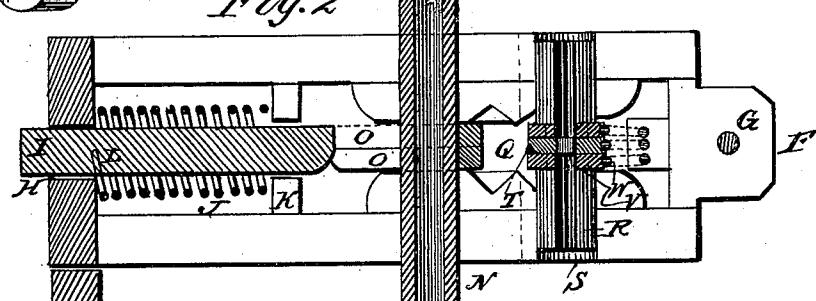


Fig. 3 A

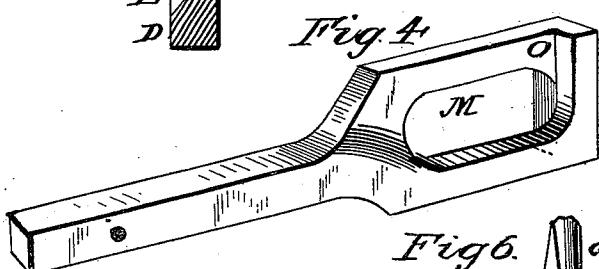
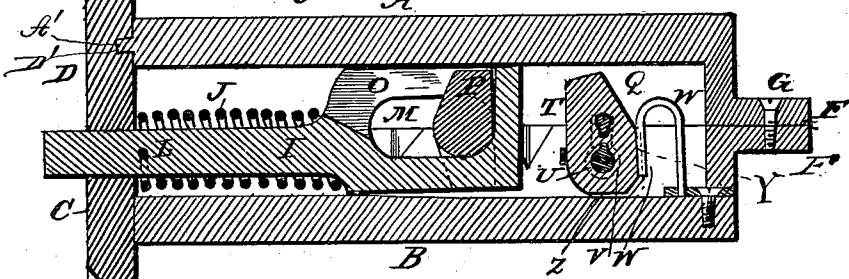


Fig. 4

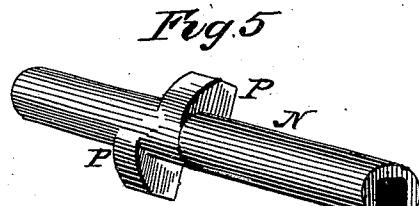


Fig. 5

WITNESSES:
Fred G. Dietrich
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Fig. 6. a Miles E. Hamilton
INVENTOR.
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UNITED STATES PATENT OFFICE.

MILES E. HAMILTON, OF AUBURN, NEW YORK, ASSIGNOR OF ONE-HALF TO
GEORGE GREEN, OF SAME PLACE.

COMBINED LOCK AND LATCH.

SPECIFICATION forming part of Letters Patent No. 282,886, dated August 7, 1883.

Application filed May 12, 1883. (Model.)

To all whom it may concern:

Be it known that I, MILES E. HAMILTON, a citizen of the United States, and a resident of Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Door Locks and Latches; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved door latch and lock. Fig. 2 is a longitudinal horizontal section of the same. Fig. 3 is a longitudinal vertical section of the same, and Figs. 4 and 5 are perspective detail views of the latch and stem. Fig. 6 is a perspective 20 of the key.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to door locks and latches; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a cylindrical casing, divided longitudinally in two halves, the one of which, B, is provided with a flanged plate, C, the diametrically opposite flanges D of which are perforated for the reception of the securing-screws E, which secure the lock to the door in its correspondingly-shaped recess, while both halves are provided at their other ends with projecting lips F, which are perforated for the reception of a screw, G, by which they are secured together, and the upper half is provided 30 with a projecting lug, A', fitting into a recess, D', in the rear side of the face-plate. The front plate, C, has a square or rectangular opening, H, through which the bolt I slides, the inner part of the divided casing forming 35 a bearing for the same. A spiral spring, J, is coiled around the bolt, bearing against a partition, K, some distance inside the plate C, with one end, and bearing with its other end, which is bent inward, through a transverse 40 hole, L, in the bolt, forcing it forward. The

inner end of the bolt is flat, and has a longitudinal transverse slot, M, through which the stem N of the handle of the lock passes, and the upper and lower sides of the slot are recessed at O, at opposite sides, for the purpose 55 of allowing room for two diametrically-opposite lugs or ears, P, which are cut off straight at their rear edges and rounded at their front edges. The rear end of the bolt is cut off square, and the blunt or square ends of three 60 tumblers, Q, bear against the same, preventing it from sliding back when they are turned down, the tumblers turning upon a longitudinally-slotted sleeve, R, turning in a transverse bore or perforation, S, in the casing, with their 65 inner wider bases. The central tumbler, T, is rigid with the sleeve, and has an aperture or slot, U, in the center of its base, corresponding to the "pin" of the key, while the other tumblers have short slots or notches V, extending 70 from the central apertures, and corresponding to the longitudinal slot in the sleeve when they are raised. Three double-bent springs, W, are fastened at one end to the bottom of the casing, and bear with their downward-bent free 75 ends against the grooved rear edges, Y, of the tumblers, which are cut off perpendicularly, with their lower corners beveled, so that the tumblers may turn freely down and back, the springs bearing against the grooved rear edges, 80 Y, and the grooved lower edges, Z, when the tumblers are either in their vertical or horizontal positions. The key a has a bit, b, formed by a bent rod, fastened to the stem, and extending laterally from the collar for a short 85 distance, whereupon it is turned down parallel with the pin c, and it is adapted to slide in the slot in the sleeve R and project into the notches V in the tumblers, turning them.

It will be seen that by only inserting the 90 bent bit of the key into the two of the tumblers they may be turned down, leaving the third tumbler standing upright, preventing the key from opening the lock from the other side, thus making the lock proof against being 95 opened from the side opposite to the side at which it was locked, when desired.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, in a door latch and lock, of the spring-actuated bolt I, the longitudinally-slotted sleeve R, having rigid tumbler T, and loosely-turning tumblers Q, having 5 notches V, the double-bent springs W, and the key a, having pin e and bit b, as and for the purpose shown and set forth.

2. The combination of the sliding bolt having a spiral spring wound around it, forcing it 10 out, and having a longitudinal slot in its rear flattened end, the sides of which end are recessed at opposite sides, as described, and a

lock-spindle having two diametrically-opposite lugs, one set to the side of the other, and having rounded front and straight rear edges, 15 as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

MILES E. HAMILTON.

Witnesses:

ED. J. MOORE,
S. J. WESTFALL.