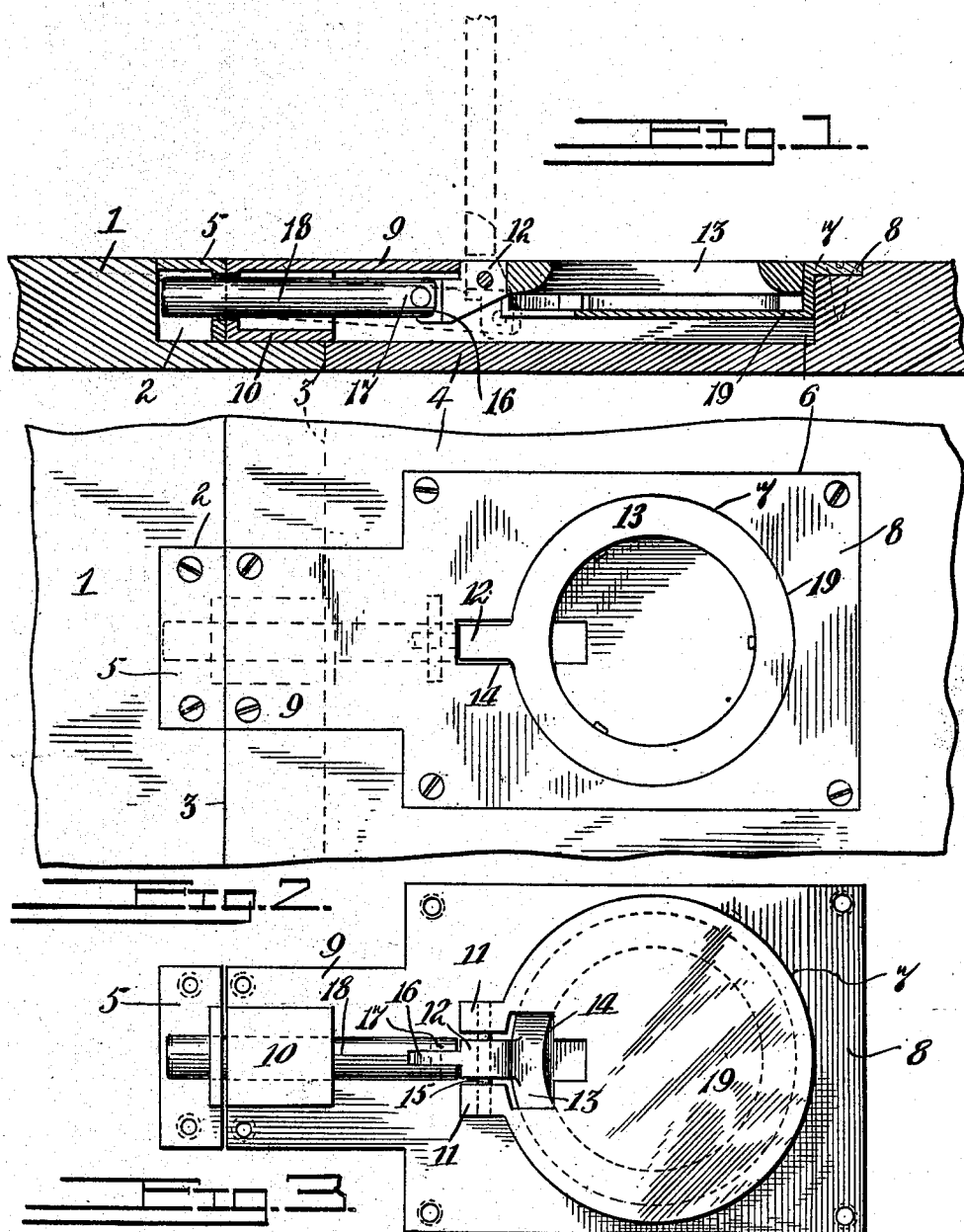


No. 885,866.

PATENTED APR. 28, 1908.

J. A. ROY.
DOOR BOLT.

APPLICATION FILED NOV. 25, 1907.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOSEPH AIMÉ ROY, OF MONTREAL, QUEBEC, CANADA.

DOOR-BOLT.

No. 885,866.

Specification of Letters Patent.

Patented April 28, 1908.

Application filed November 25, 1907. Serial No. 403,665.

To all whom it may concern:

Be it known that I, JOSEPH AIMÉ ROY, a subject of the King of Great Britain, residing at the city and district of Montreal, in the Province of Quebec, Canada, have invented certain new and useful Improvements in Door-Bolts; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to door bolts, more particularly for trap doors.

The object of my invention is to provide a bolt which will lie flush with the surface of the door and the floor when in closed position, and which, when open, has an annular member on which may be exerted the strain of pulling the door open.

My invention consists of the construction, combination, and arrangement of parts, as herein illustrated, described and claimed.

In the accompanying drawings forming part of this application, I have illustrated one form of embodiment of my invention, in which drawings, similar reference characters designate corresponding parts, and in which:

Figure 1 is a vertical section through a section of flooring and one edge of a trap door; Fig. 2 is a plan view of a section of a door and floor equipped with my invention; and, Fig. 3 is a bottom plan view of the bolt.

Referring to the drawings, 1 designates the floor which is provided with a recess 2 to receive the keeper of the bolt. The floor is provided with the usual opening 3 to receive the door 4 which is hinged on the side opposite to that which carries the bolt. A flanged keeper 5 is disposed in the recess 2. Adjacent its edge the door 4 is provided in its upper surface with a recess 6 adapted to receive a plate 7 having an attaching flange 8, by means of which the plate 7 may be secured to the door through the medium of ordinary attaching members such as screws. The plate 7 is provided with a projecting lip 9 having formed on its under surface a guide

flange or barrel 10. On its under surface intermediate of its ends, the plate 7 is provided with ears 11 between which is disposed the shoulder 12 of an annular member 13. The plate 7 is provided with an opening 14 through which the shoulder 12 projects, and said shoulder is pivotally retained between the ears 11 as by means of the pivot pin 15. The free end of the shoulder 12 is provided with a lug 16 which is disposed in pivotal engagement with the bifurcated end 17 of the bolt 18, which bolt is guided by the flange 10 on the plate 7 and is adapted to enter the keeper 5 when the door is in closed position and the annular member 13 is lying within the recess 19 formed in the upper face of the plate 7.

As most clearly shown in Figs. 1 and 2, when in closed position this construction lies practically flush with the surface of the door. The under surface of the annular member 13 is provided with a convexed edge 20 so that a suitable hook or the fingers of a person may be inserted thereunder to retract the bolt 18 to raise the door 4.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:

A door latch comprising a recessed plate, an actuating member pivoted to the plate and adapted to lie in the recess, a bolt pivoted to the actuating member in such manner as to allow the pivotal point to move downwardly and rearwardly as the actuating member is raised, and a flange on the plate provided with an opening of slightly greater diameter than the bolt and adapted to guide the bolt and to permit the downward and rearward movement of the pivotal point of the same.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

JOSEPH AIMÉ ROY.

Witnesses:

C. E. FACOMPRES,
J. M. FEIGENBAUM.