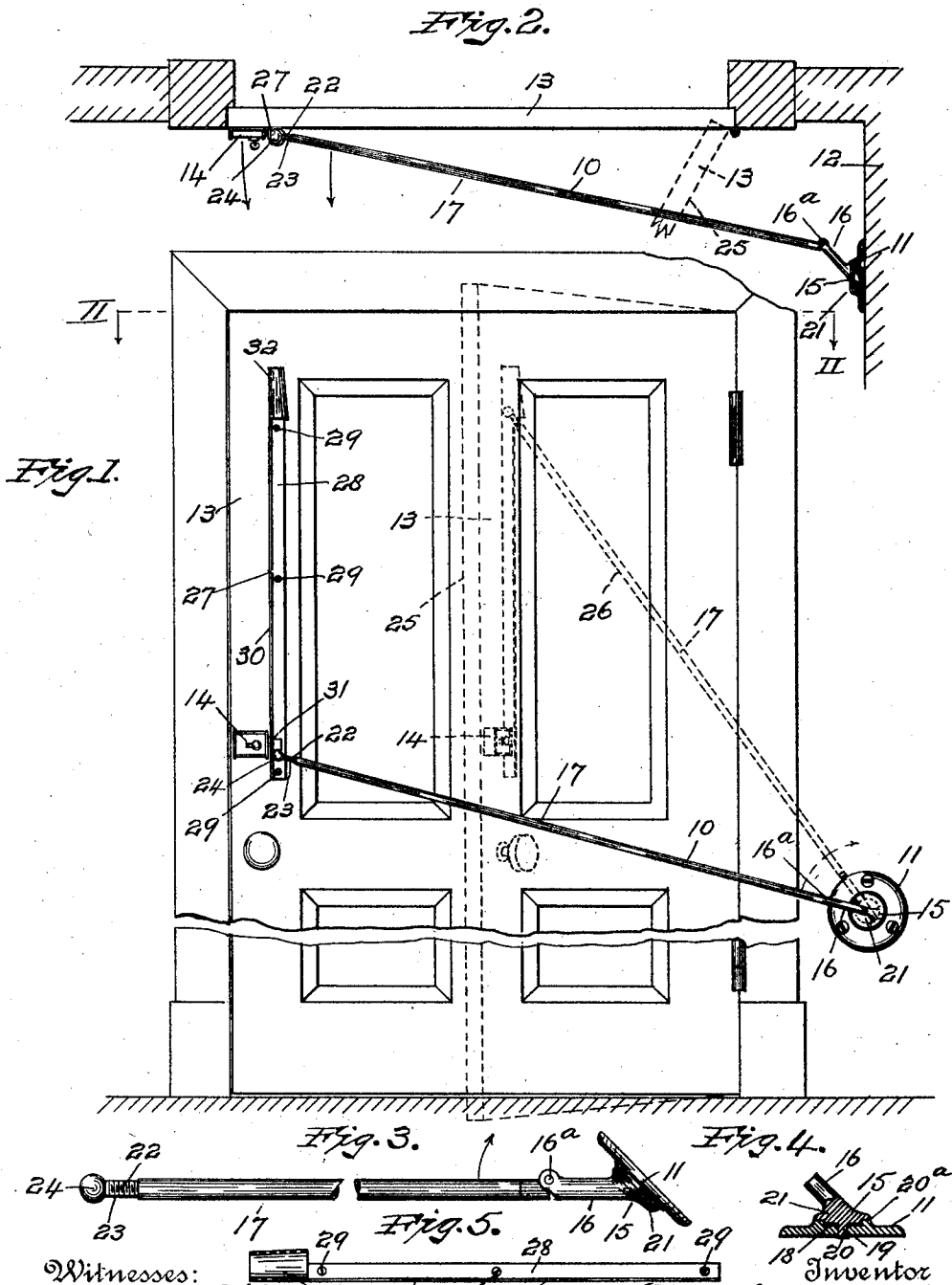


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DOOR FASTENING DEVICE.
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UNITED STATES PATENT OFFICE.

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DOOR-FASTENING DEVICE.

1,002,812.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT A. MOORE, a citizen of the United States, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Door-Fastening Devices, of which the following is a full, clear, and exact specification.

This invention relates to a class of devices for use in conjunction with a night latch to prevent the door of a building from being opened from the outside without the use of a suitable key to operate the latch.

My invention has for its object primarily to provide a form of fastening device wherein is employed a movable bar adapted to be used in a manner to effectually lock the door of a building or an apartment from the inside and which is adapted to cooperate with any preferred form of night latch or lock whereby it will be impossible to force the door open from the outside thereof by the ordinary means used for such purposes, but which will permit said door to be readily opened by the person possessing a key capable of unlocking the latch or lock in use with the fastening device.

A further object of the invention is to provide a base plate to which one end of the bar of my fastening device is swiveled and which is adapted to firmly hold said bar to the wall of the apartment in proximity to the stile of the frame to which the door is hinged; and to provide means adapted to guide the free end of the bar so that it will engage with and be wedged under the slide bolt of the night lock when the door is closed.

A practical embodiment of the invention is represented in the accompanying drawing forming a part of this specification in which similar characters of reference indicate corresponding parts in all the views, the said invention being more fully described herein-after and then pointed out in the appended claims.

In the drawing, Figure 1 is an elevation of a door and its frame partly broken away with one form of my improved door lock applied thereto. Fig. 2 illustrates the device attached to a wall at a right angle to the door. Fig. 3 is a side view of the bar and base-plate of the door lock. Fig. 4 is a section through the base-plate and form of swivel for connecting the bar to said

base-plate, and Fig. 5 is a perspective view of the guide for controlling the movement of the free end of the bar.

The door fastener 10 has a base-plate 11 which is adapted to be connected by screws or in any suitable manner to a wall, as 12, preferably disposed at a right angle to the stile of the frame to which a door 13 is hinged and upon the stile of the door opposite to the one hinged to its frame may be attached any preferred make of night lock or latch, as 14. To provide for proper cooperation of the night lock with the door fastener 10 said lock is positioned so that the slide bolt thereof will be disposed in the direction of the hinged edge of the door, that is, reversely to the usual manner of using a night lock.

The base-plate 11 may be of any desired form and to said base-plate is swiveled, as at 15, the member or arm 16 of a bar or locking element 17 of the door fastener 10. The swivel 15 may be in the form of a ball and socket, or a knuckle joint, but the form I prefer is to provide a recess, as 18, in one face of the base-plate 11 and through said base-plate centrally of the recess 18 is an opening 19 in which is rotatably held the pin 20 of the boss 20^a which is seated in the recess 18 and extends from a flange or cap 21 of the swivel 15 which is provided upon one end of the member or arm 16. To the opposite end of the member or arm 16 is hinged, as at 16^a, one end of the bar or locking element 17 or this locking element may be connected in any other desired manner to said arm so as to permit the parts to move at any angle or upon any degree of a circle.

In order to lock the door 13 by the use of my device the bar or locking element 17 is disposed across the face of the door inside of the room or apartment and to allow for using one length of said bar upon doors of various widths the opposite end of the bar 17 is interiorly threaded for reception of the threaded shank 22 of an adjusting member or pin 23. Upon the free end of the adjusting member or pin 23 is provided a head or knob 24 which is adapted to be wedged under the slide bolt of the night lock 14 in locking the door 13 by the device.

It is evident that to open the door which is locked by my device, as described, the slide bolt of the night lock 14 must be moved within the casing of said night lock from

within the room or apartment or by using the key adapted to unlock the lock 14 from the outside of the door 13. When the slide bolt of the night lock 14 is moved from engagement with the adjusting member or pin 23 the door 13 is pushed to an open position, as indicated in dotted lines 25 Figs. 1 and 2, and the bar 17 will assume a proper angle by means of the hinge 16^a, at the same time the member or arm 16 will be turned circumferentially upon the base-plate 11 to permit said bar to be directed upwardly, as illustrated in dotted lines at 26, Fig. 1, as the door is opened. As shown, the fastening device 10 is designed and applied to the door 13 so as to adapt the bar or locking element 17 to keep the knob 24 of the adjusting member 23 in abutment with said door and for the purpose of properly guiding the movement of the adjusting member 23 and said bar I provide a guiding element 27. The guiding element 27 is provided with a base-plate or strip 28 which is connected by screws or bolts 29 in a vertical position upon the inside face of the stile of the door 13 to which is attached the night lock or latch 14 and the lower end of the strip 28 is held adjacent to said night lock. Formed upon one edge of the strip 28 is a projecting flange or right angle strip 30 which has a cut-out portion or is slotted, as at 31, for passage therethrough of the slide bolt of the night lock 14 so as to allow the knob 24 of the adjusting member 23 to be wedged thereunder. It is clear, that the movement of the locking element 17 will be properly guided by contact of the adjusting member 23 with the projecting flange or right angle strip 30 and to prevent the adjusting member 23 against disengagement with the guiding element 27 when the door 13 is swung clear open a retaining member or tube 32 is provided upon the upper end of the base-plate or strip 28 and projecting flange 30. The tubular member 32 is preferably tapering in form to provide a mouth 33 of greater diameter than the top portion thereof so as to allow free access into the interior of said tubular member of the adjusting member or pin 23 of the locking element or bar 17 when the door is opened.

In the foregoing description I have embodied the preferred form of my invention, but I do not wish to be understood as limiting myself thereto, as I am aware that modifications may be made therein without departing from the principle or sacrificing any of the advantages of this invention, therefore I reserve to myself the right to make such changes as fairly fall within the scope thereof.

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

1. A door fastening device, comprising a

base-plate having a recess provided in one face thereof; a member having one end rotatably held in the recess of the base-plate; a locking element having one end hinged to the opposite end of the rotatable member; a guiding element adapted to guide the movement of the locking element; and means operating in conjunction with the guiding element and adapted to prevent movement of the locking element.

2. In a door fastening device; the combination with a lock attached to the door of a building; of a vertically disposed guiding element attached to the door and having one end thereof adjacent to said lock; a movable locking element adapted to have one of its ends guided by the guiding element and engaged by said lock; and a base-plate swiveled upon the opposite end of the locking element and connected to the wall of the building at the hinged edge of the door.

3. In a door fastening device; the combination with a lock attached to the door of a building; of a base-plate held vertically upon one face of the door and having one end positioned adjacent to the lock; a flange formed upon one edge of the base-plate and having a slot therein for passage therethrough of the slide bolt of said lock; a bar directed across the face of the door and adapted to have one end thereof held in engagement with the slide bolt of the lock; an arm hinged to the opposite end of the bar; and a base-plate swiveled to the opposite end of the arm and connected to the wall of the building at the hinged edge of the door.

4. In a door fastening device; the combination with a lock attached to the door of a building; of a base-plate held vertically upon one face of the door and having one end positioned adjacent to the lock; a flange formed upon one edge of the base-plate and having a cut-out portion for passage therethrough of the slide bolt of said lock; a tapered tubular member provided upon the upper end of the base-plate and said flange; a locking bar directed across the face of the door; a pin adjustable upon one end of the locking bar and having a knob formed upon the free end thereof for engagement with the slide bolt of the lock; an arm having one end movably connected to the opposite end of the bar; and a base-plate swiveled to the opposite end of the arm and connected to the wall of the building at the hinged edge of the door.

5. In a door fastening device; the combination with a lock attached to the door of a building; of a base-plate held vertically upon one face of the door and having one end thereof positioned adjacent to the lock; a strip formed upon one edge of the base-plate and disposed at a right angle thereto, said strip having an opening therein for pas-

sage therethrough of the slide bolt of said lock; a tapered tube provided upon the upper end of the base-plate and said strip; a bar directed across the face of the door and having one end thereof interiorly threaded; a pin having a threaded shank adjustably held in the threaded end of the bar; an arm having one end movably connected to the opposite end of the bar and provided upon its other end with a flange upon which is formed a projecting boss; a pin projecting from the boss; a base-plate adapted to be connected to the wall of the building at the hinged edge of the door, said base-plate having a recess in one face thereof and having an opening therethrough centrally of said recess for reception of the pin projecting from the boss of the flange of said arm.

6. In a door fastening device; the combination with a lock attached to the door of a building; of a guiding element held vertically upon one face of the door and having one of its ends positioned adjacent to the

lock; a bar directed across the face of the door and having one end thereof interiorly threaded; a pin having a threaded shank adjustably held in the threaded end of the bar and having a head upon the free end thereof for engagement with the slide bolt of the lock; an arm having one end hinged to the opposite end of the bar and provided upon its other end with a flange upon which is formed a projecting boss; a pin extending from the boss; a base-plate adapted to be connected to the wall of the building at the hinged edge of the door; said base-plate having a recess in one face thereof and having an opening therethrough centrally of said recess for reception of the pin projecting from the boss of the flange of said arm.

This specification signed and witnessed this twenty-seventh day of October A. D. 1910.

ROBERT A. MOORE.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."