July 2, 1929. C. C. WHITE 1,719,638

DOOR

Filed Aug. 30, 1926

Fig. 1.

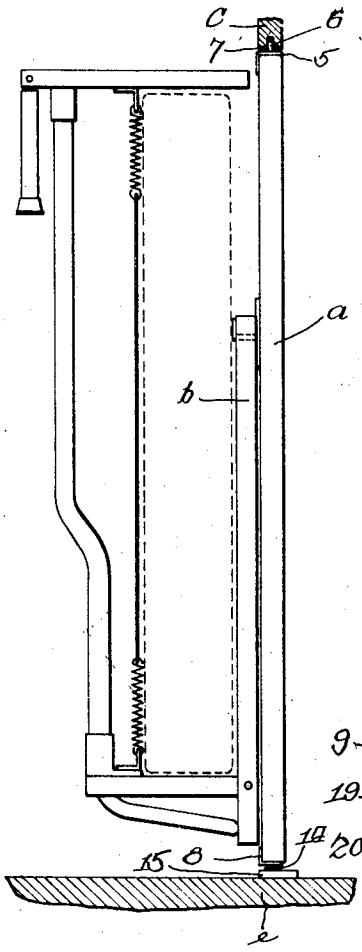


Fig. 4.

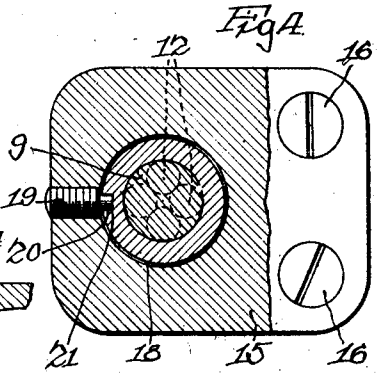


Fig. 2.

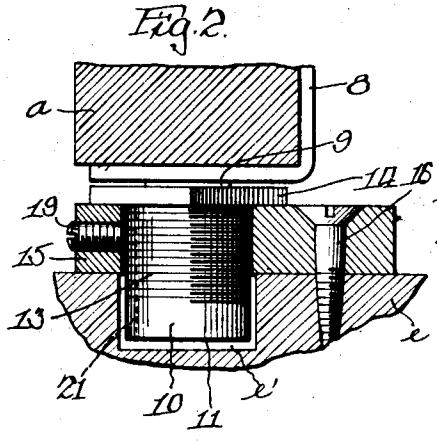
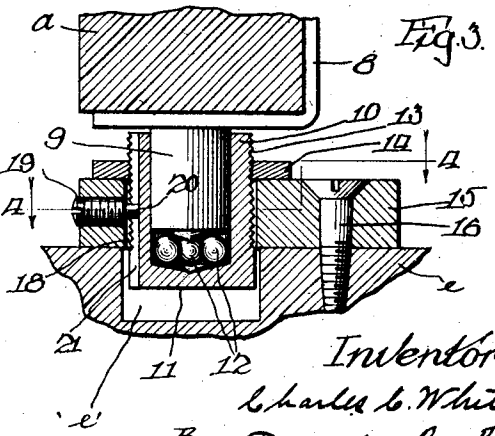


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES C. WHITE, OF NEW YORK, N. Y.

DOOR.

Application filed August 30, 1926. Serial No. 132,489.

The invention relates to doors used for supporting beds and more particularly to the pivotal mounts therefor.

These doors are, in many instances, centrally pivoted in an opening between a closet and a room, so that a bed mounted on the door may be swung from the closet to the room and vice versa. In practice, it has been found that in many instances the floor on which the bottom of the door is pivoted settles or sags to such an extent as to prevent the swinging of the door and the bed, thus rendering it impossible or difficult to shift the bed from its concealed to its exposed position. The object of the invention is to provide a pivotal mount for doors of this type which may be readily adjusted to compensate for any deflection in the floor.

The invention consists in the several novel features hereinafter set forth and more particularly defined by the claim at the conclusion hereof.

In the drawing: Fig. 1 is a side elevation of a door embodying the invention, the floor and wall and the door-frame above the door being shown in section. Fig. 2 is a view partly in section and partly in elevation of the pivotal mount for the bottom of the door. Fig. 3 is a section, showing the mount after it has been adjusted to compensate for the settling or sagging of the floor. Fig. 4 is a section taken on line 4—4 of Fig. 3.

The invention is exemplified in connection with a door *a* upon which a folding door bed *b* is suitably mounted. This bed is of the folding type adapted to be swung from a vertical position adjacent one side of the door to a horizontal operative position, as well understood in the art. The door *a* is mounted in a suitable opening and is centrally pivoted so that it may be swung to bring the bed from a closet into an adjoining room or vice versa. The top of the door has secured thereto a bracket 5 and with a pintle 6 extending through a plate 7 secured to the usual door frame *c*.

The pivotal mount for the bottom of the door and which sustains practically the entire load of the door and bed and comprises an angle-plate 8 which is fixedly secured to one side and against the bottom edge of the door is provided with an integral depending pintle 9 which fits into a cup-shaped socket comprising a cylindrical portion 10 and an integral bottom 11. To avoid friction, a series of balls 12 are interposed between a slightly tapered upper face of the socket bottom 11 and at the correspondingly tapered lower end of the pintle 9. This provides an anti-friction bearing for the door and its load which makes it possible to swing the door and bed from one of its positions to the other with little manual effort. The outer periphery of the socket 10 is provided with a screw-thread 13 and a nut 14 is threaded thereto. A plate 15 of any suitable shape is secured, as by screws 16, to the floor and the nut 14 rests on the top face of said plate. A cylindrical recess *e'* is drilled into the floor *e* to receive the lower portion of the socket 10. The socket 10 extends loosely through an opening 18 in the plate 15 and is held against rotation relatively to the plate by a screw 19 which is threaded to the plate 15 and is provided with a stud 20 at its inner end which extends into a vertical groove 21 in the periphery of the socket 10, so that the latter may be raised and lowered in the socket by the rotation of nut 14. When the screw 19 is loose, the socket 10 will be held against rotation, while it may be raised or lowered by the rotation of the nut 14. When the screw 19 is tightened to jam the stud 20 against the socket, it will tend to hold the socket vertically so that the nut 14 may be jammed against the top of the plate 15 to cause the socket to be securely locked in its assigned position.

In installing the door, the recess *e'* is cut into the floor and the plate 15 with the socket 10 therein and the pintle 9 in said socket. The door is then placed in position and secured to the bracket 8. When initially installing the door, the socket 10 will be in its lowered position shown in Fig. 2. When the floor *e* settles or sags, which in some instances is sufficient in extent to disengage the upper pintle 6 from its socket, the screw 19 will be loosened and the nut 14 rotated to raise the socket 10 to compensate for the deflection of the floor. The screw 19 will then be tightened so that the socket and nut will remain locked in their assigned position.

The invention exemplifies a pivotal mount for bed-doors which may be readily adjusted to compensate for any settling or sagging in the floor by the adjustment of the socket and nut. The device as a whole may be simple in construction and may be produced at a low cost.

The invention is not to be understood as

restricted to the details set forth, since these may be modified within the scope of the appended claim, without departing from the spirit and scope of the invention.

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

As a new article of manufacture, a pivotal mount for a door, said mount comprising a pintle adapted to be secured fixedly to the bottom of the door so as to depend therefrom, a cylindrical member having formed therein an open top socket in which the pintle fits and is supported, a floor plate having an opening in which said member is vertically movable, the outer peripheral portion of the member embodying a screw-thread, a nut supported by the plate and engaging the screw thread, said nut being adapted, upon manipulation thereof, to raise and lower the socket and pintle relatively to the plate, and a screw, threaded to the plate and operative to hold the member against rotation and clamp it in its assigned positions.

Signed at New York, New York, this 20th day of August, 1926.

CHARLES C. WHITE.