Aug. 4, 1925. 1,548,175

J. G. ROSEBOROUGH

TURNING BAR APPARATUS

Filed Oct. 13, 1923

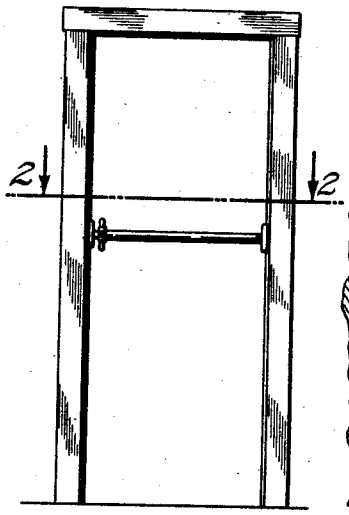


FIG. 1.

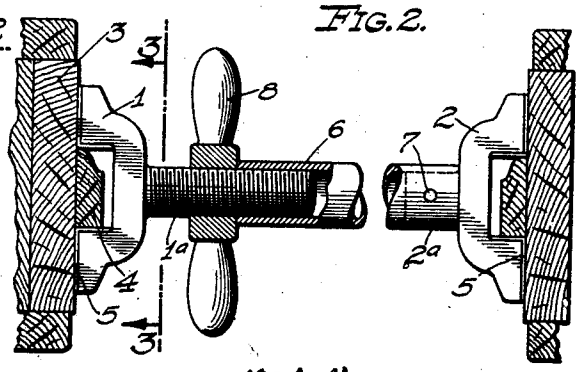


FIG. 2.

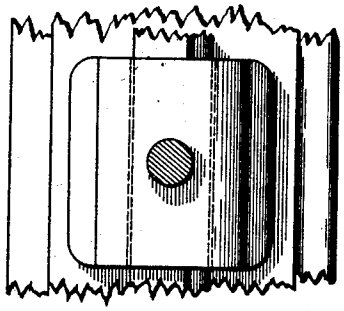


FIG. 3.

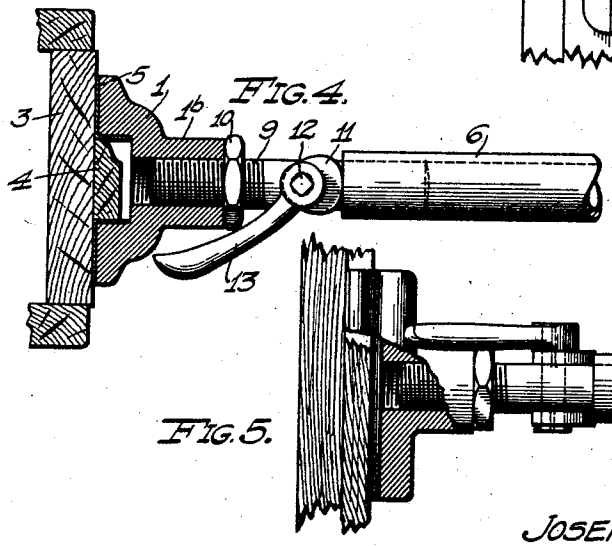


FIG. 4.

FIG. 5.

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UNITED STATES PATENT OFFICE.

JOSEPH G. ROSEBOROUGH, OF SAN DIEGO, CALIFORNIA.

TURNING-BAR APPARATUS.

Application filed October 13, 1923. Serial No. 668,393.

To all whom it may concern:

Be it known that I, JOSEPH G. ROSEBOROUGH, a citizen of the United States, residing at San Diego, in the county of San Diego and State of California, have invented a certain new and useful Turning-Bar Apparatus, of which the following is a specification.

My invention relates to a turning bar apparatus, and the objects of my invention are: first, to provide an apparatus of this class which may be readily secured to and between a door casing between the floor and the top thereof, or to and between the side members of any other similar frame; second, to provide an apparatus of this class which is frictionally supported by the side members of the door casing and which is laterally positioned by means of the jamb thereof; third, to provide such an apparatus which is frictionally supported on the side members of the door casing or other frame by means of a friction material positioned between the supporting members of the apparatus and the side members of the casing or frame and by means of a pressure means provided in connection with the bar apparatus; fourth, to provide a novelly constructed apparatus of this class, and fifth, to provide such an apparatus which is very simple and economical of construction, durable, one which may be readily adjusted for widths of door casings or frames, and also to different heights, and an apparatus which will not readily deteriorate or get out of order.

With these and other objects in view, as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts and portions, as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon, which form a part of this application, in which:

Figure 1 is a side elevational view of a door casing with my turning bar apparatus frictionally supported thereby; Fig. 2 is an enlarged, fragmentary view of the apparatus supported by the door casing, with the view taken through 2—2 of Fig. 1, showing the casing fragmentarily and in section and also showing certain parts and portions of the apparatus broken away and in section to facilitate the illustration; Fig. 3 is a transverse, sectional view thereof, taken through 3—3 of Fig. 2; Fig. 4 is another view of one end of my bar apparatus in a slightly modified form of construction, showing certain parts and portions thereof broken away and in section to facilitate the illustration, and Fig. 5 is a side view thereof, taken at a right angle to that of Fig. 4, also showing certain parts and portions broken away and in section to facilitate the illustration.

Like characters of reference refer to similar parts and portions throughout the several views of the drawings.

The end supporting members 1 and 2, door casing 3, jamb 4, friction material 5, bar 6, pin 7, and the take-up nut 8, constitute the principal parts and portions of my turning bar apparatus in its preferred form of construction.

The end supporting members 1 and 2 of my bar apparatus are of bridged construction and adapted to straddle the door jamb 4 secured to the door casing 3. Positioned between the end supporting members 1 and 2 and the door casing 3 and the jamb 4, and secured to said supporting members, is the friction material 5, preferably of rubber or other material adapted to produce considerable friction between said members when under pressure. Said end supporting members 1 and 2 are provided with inwardly extending lugs 1^a and 2^a, respectively, which extend into the ends of the hollow, tubular bar 6. The end of the bar extending over the lug 2^a of the support 2 is secured thereto by means of a pin 7. The lug 1^a is externally threaded and provided with a take-up nut 8, which is adapted to engage the other end of the bar 6 for expanding the apparatus and frictionally securing the same between the side members of the door casing.

In the modified form of construction, shown in Figs. 4 and 5 of the drawings, I have shown the end supporting member 1 provided with an extended, hollow boss 1^b, which is internally threaded and in which is positioned the one end of the screw member 9 and which is locked in position relatively thereto by means of the lock nut 10. The opposite end of the screw member 9 extends into the hollow bar 6, supporting and positioning the same thereon. On opposite sides of the screw member 9 are rotatably mounted the cams 11, connected with each other by

means of a pin 12, extending through and rotatably mounted in the member 9, the end of said pin being preferably polygonally shaped to prevent turning of one cam relatively to the other. At one end of the pin 12 is provided a handle 13 for simultaneously rotating said cams and expanding the apparatus. It will be noted that the apparatus is first expanded or contracted by means of the screw member 9 to fit between the door casing and is locked between the side members thereof by rotating the handle 13, which, by reason of the engagement of the cams 11 with the ends of the bar 6, clamps the apparatus between the side members of the door casing.

It is obvious from this construction, as illustrated in the drawings and described in the foregoing specification, that there is provided an apparatus as aimed at and set forth in the objects of the invention, and though I have shown and described a particular construction, combination and arrangement of parts and portions and a certain modification thereof, I do not wish to be limited to this particular construction, combination and arrangement nor to the modification, but desire to include in the scope of my invention, the construction, combination and arrangement substantially as set forth in the appended claims.

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

1. In an apparatus of the class described, the combination with a frame having a positioning strip on the side members thereof, of end supports frictionally supported on said side members, a turning bar supported and positioned by said end supports, and a hand lever take-up means, in connection with said bar and one of said supports for adjusting the same relatively to each other.

2. In an apparatus of the class described, the combination with a frame having vertical positioning strips secured to the inside of the side members thereof, of end supports of bridged construction positioned against the side members of said frame and straddling said vertical strips, said supports being provided with inwardly extending portions, a turning bar supported by the inwardly extending portions of said supports and secured to one of said portions, and a take-up means in connection with said bar and one of said supports.

3. In an apparatus of the class described, the combination with a frame having vertical positioning strips secured to the inside of the side members thereof, of end supports of bridged construction positioned against the side members of said frame and straddling said vertical strips, said supports being provided with inwardly extending portions, a turning bar supported by the inwardly extending portions of said supports and secured to one of said portions, a take-up means in connection with said bar and one of said supports, and a friction material positioned between said supports and the side members of said frame.

4. In an apparatus of the class described, the combination with a door casing and a jamb secured thereto, of bridged supports positioned against the side members of said casing and straddling said jamb, a turning bar supported by said supports, and a take-up means in connection with said bar and one of said supports.

5. In an apparatus of the class described, the combination with a door casing and a jamb secured thereto, of bridged supports positioned against the side members of said casing and positioned laterally by said jamb, said supports being provided with inwardly extending lugs, the one being externally threaded, a tubular turning bar supported by, between and secured to one of said lugs, and a screw take-up means positioned on said threaded lug against one end of said bar.

In testimony whereof, I have hereunto set my hand at San Diego, California, this 6th day of October, 1923.

JOSEPH G. ROSEBOROUGH.