(No Model.)

E. Y. MOORE.

ADJUSTABLE TRACK FOR SLIDING DOORS.

No. 492,413. Patented Feb. 28, 1893.

Fig. 1.

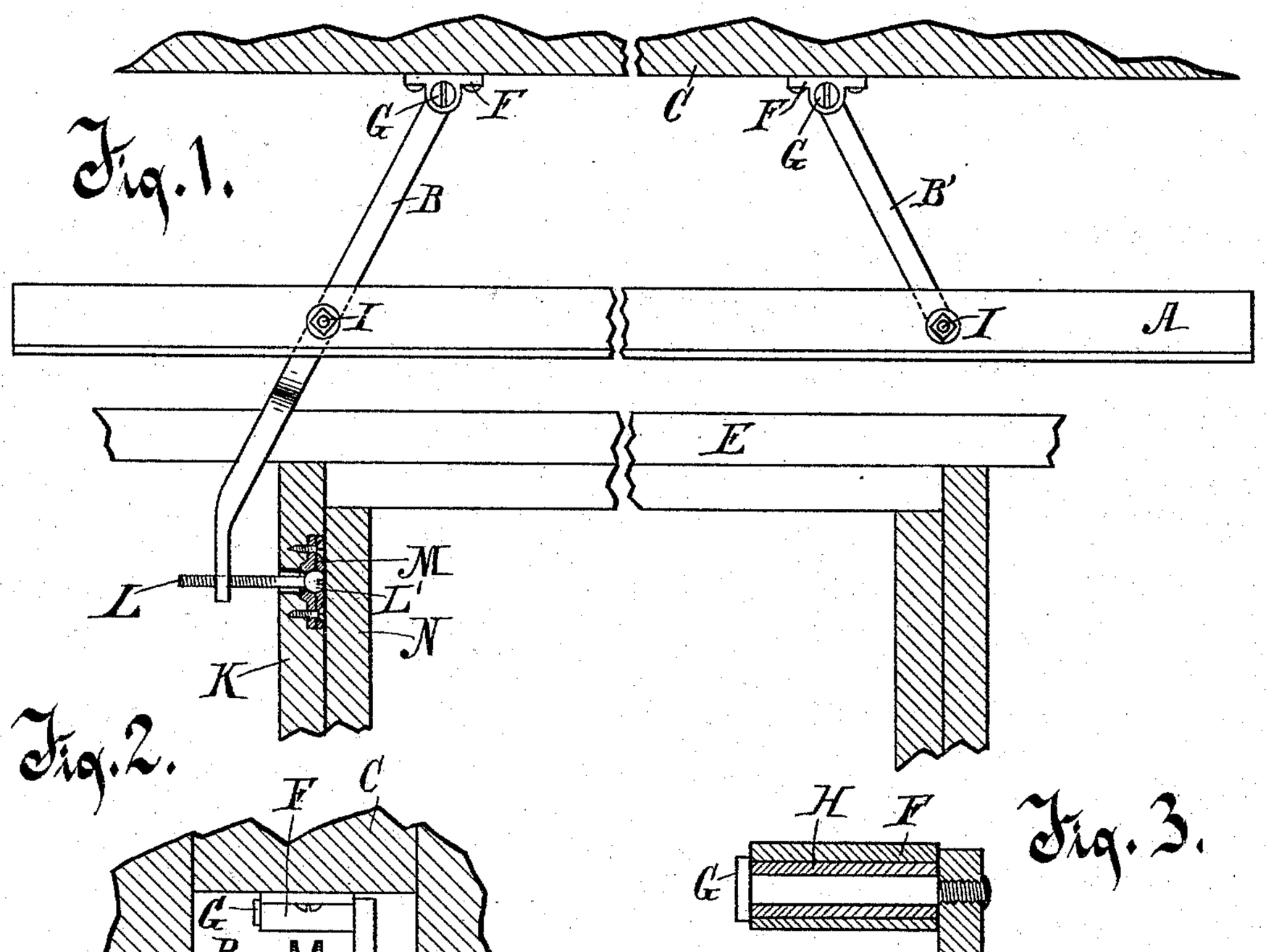


Fig. 2.

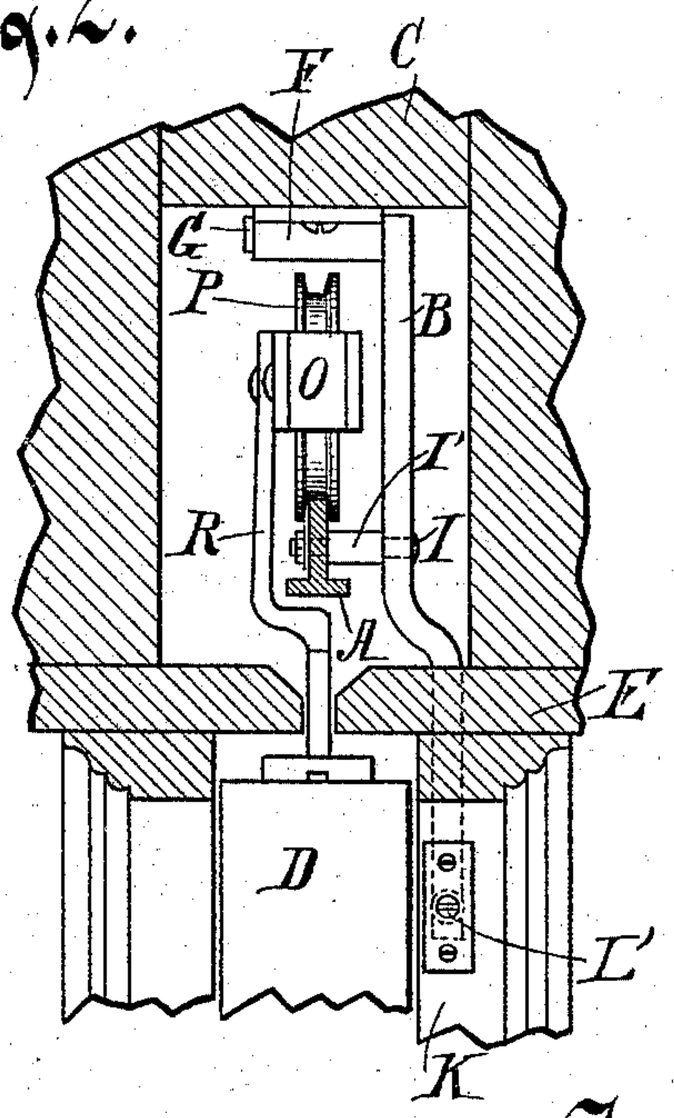


Fig. 3.

Fig. 4.

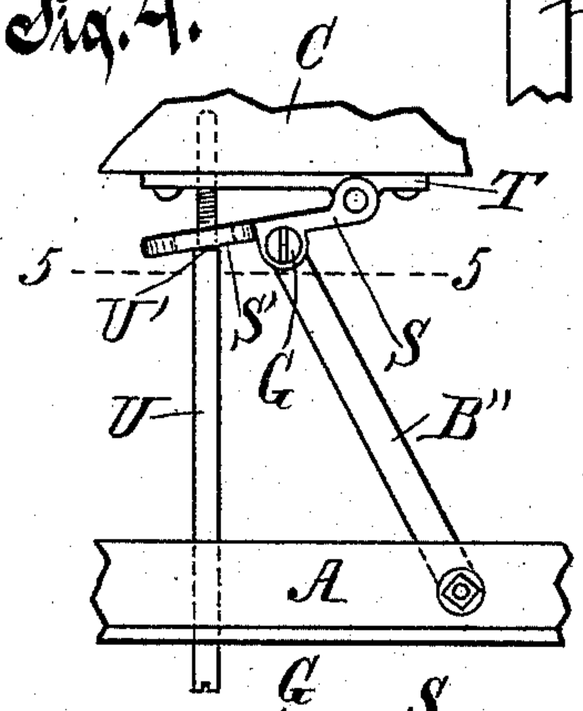
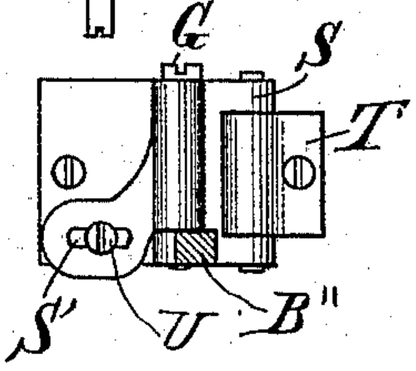


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

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ADJUSTABLE TRACK FOR SLIDING DOORS.

SPECIFICATION forming part of Letters Patent No. 492,413, dated February 28, 1893.

Application filed May 14, 1892. Serial No. 432,999. (No model.)

To all whom it may concern:

Be it known that I, EDWARD Y. MOORE, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Improvement in Adjustable Tracks for Sliding Doors, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

My invention relates to improvements in those door hanger tracks that are used for the support and travel thereon of the hangers attached to and carrying sliding or laterally moving doors.

The object of my invention is to provide means for adjusting or leveling up the track and consists chiefly in the devices used for supporting the track on the building.

In the drawings, Figure 1, is an elevation of my improved device in connection with fragments of the building showing its relation thereto, parts being shown in section for convenience of illustration. Fig. 2, is an end view of my improved device, the surrounding parts of the building and the track being shown in transverse section. Fig. 3, is a detail of the construction. Figs. 4 and 5 are details of a modified form of device. Fig. 5, being a section on line 5—5 of Fig. 4, looking upwardly.

A is the steel rail which is preferably constructed in the inverted T-form shown in Fig. 2. This rail or track is supported on arms B B′ which arms at their upper extremities are hinged to the door frame C. The rail is located directly over the door aperture and the line of travel of the door D centrally above a longitudinal aperture in the soffit E. The arms B B′ are conveniently hinged to the frame C by means of boxes F F secured rigidly to the frame and bolts G G provided near their extremities with screw threads which turn into the arms B B′. These bolts are journaled in the boxes F F and serve as pivots on which the arms B B′ swing. For obviating the sound that would otherwise be produced by the travel of the metal hanger on the track I provide a bushing H of suitable material preferably of vulcanized rubber about the bolts G and between them and the boxes F in which they are journaled. The arms B B′ are also pivoted to the track A by means of bolts I I but are held at a distance therefrom by interposed sleeves I′ I′ about the bolts I against the extremities of which the arms and the track bear respectively. These arms B B′ incline outwardly from each other downwardly and from a perpendicular between them and are intended and arranged to suspend the track substantially level horizontally by gravity. The arm B is however continued beyond the track downwardly to opposite the door casing K and the lower end thereof is secured adjustably to the casing by means of a screw threaded bolt L turning in a corresponding screw in the arm. This bolt L is provided with a spherical head L′ which is fitted and held movably in a double plate box M therefor. The box M is secured to the casing K and the outer surface of the head L′ is provided with a tool slot therein and is exposed for the application of a screw driver or similar tool thereto. By this means the bolt L may be rotated as shall be necessary to swing the lower extremity of the arm B inwardly or outwardly thereby correspondingly lowering or raising that end of the rail A. In this manner the rail can be conveniently leveled up at any time thus providing for the shrinking of timbers which takes place in the excessive seasoning of the lumber after it has been put into a building and also for such expansion as sometimes occurs in the lumber while in the building, particularly in the summer season when no fires are kept up in the building and in a climate where there is considerable moisture in the air.

The box M is ordinarily covered by the molding N.

In Fig. 2, a door hanger O provided with a wheel P and a door suspending arm R is shown to illustrate the relation of the door hanger and door to my improved track support.

In the modified form of device shown in Figs. 4 and 5, a hinged box S is substituted for the box F in the form shown in Figs. 1 and 2. The arm B″ is pivoted in the box S in substantially the same manner as is stated in the foregoing description relating to the hinging of the arm B′ in the box F. The box S is at one extremity hinged to a base plate T, which plate T is secured rigidly to the

frame C. A screw threaded rod U provided with a shoulder U′ passes loosely through the free end of the box S in a slot S′ therefor and turns by its thread into the plate T. The box S rests on the shoulder U′ and by turning the rod U into or out of the plate T the box S can be raised or lowered as desired thereby correspondingly raising or lowering that end of the track A. The rod U extends downwardly alongside the track and is provided with a tool slot in its end. This rod may be rotated by a screw driver or similar tool applied thereto through an aperture therefor in the soffit or by removing the soffit for that purpose. This modified form of device shown in Figs. 4 and 5 may, if desired, be used in connection with the device illustrated in Figs. 1 and 2.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A door hanger track, pivoted to and suspended on pendent swinging arms arranged at oblique angles to a perpendicular, in reverse directions substantially as described.

2. The combination of a door hanger track with swinging arms on which the track is pivoted and suspended, which arms are pivoted to and pendent from the door frame at oblique angles to a perpendicular, and means substantially as described for adjusting one of the arms toward or from the perpendicular, substantially as described.

3. The combination with a hanger track, of swinging arms pivoted to a fixed support on which arms the track is suspended, which arms are arranged at oblique angles reversely to a perpendicular and a revoluble screw threaded bolt secured against movement endwise and turning into the extension of one of the arms whereby the arm may be adjusted toward or from a perpendicular, substantially as described.

4. The combination with a door hanger track, of suspending arms, pivoted at their upper extremities and capable of swinging in their vertical plane boxes above the arms secured to a fixed support, in which boxes the suspending arms are pivoted, bolts fixed in and projecting laterally from the arms, which bolts enter the boxes and serve as pivots for the arms and sound-obviating packing in the form of bushing in the boxes about the bolts whereby the track is sound-insulated from its support, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD Y. MOORE.

Witnesses:
T. W. DAVIS,
S. R. WALLACE.