

H. L. FERRIS.
 TRACK AND MEANS FOR SUPPORTING SAME.
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983,615.

Patented Feb. 7, 1911.

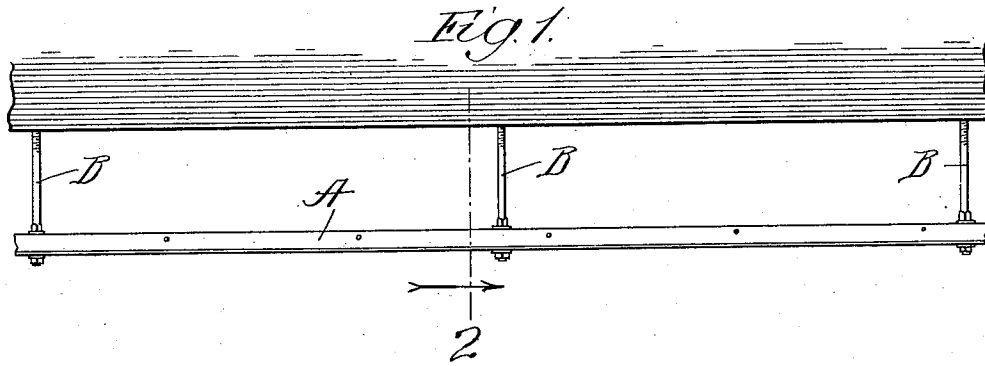


Fig. 2.

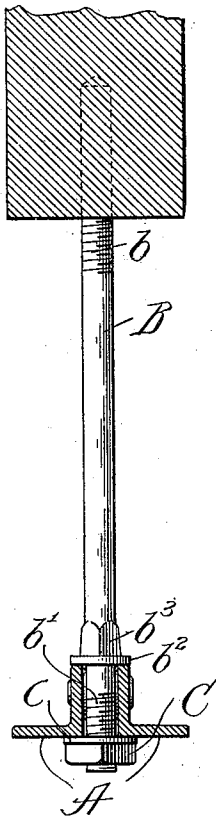


Fig. 4.

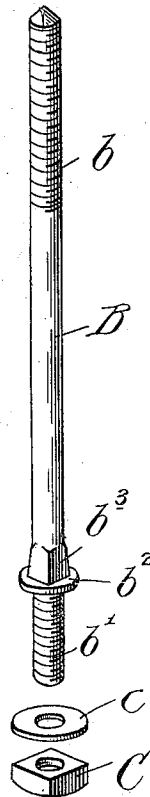
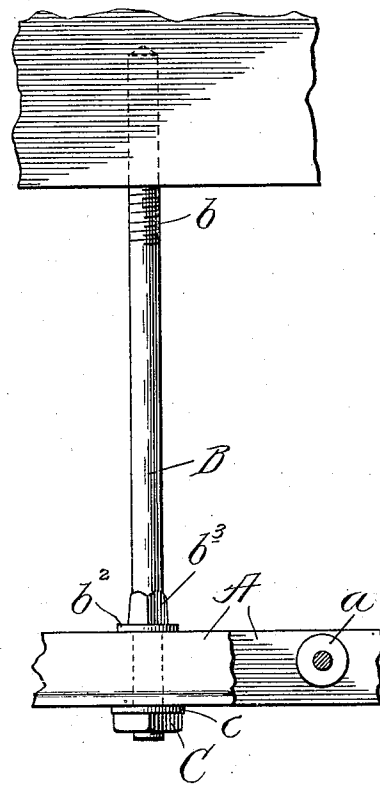


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY L. FERRIS, OF HARVARD, ILLINOIS, ASSIGNOR TO HUNT, HELM, FERRIS & COMPANY, OF HARVARD, ILLINOIS, A CORPORATION OF ILLINOIS.

TRACK AND MEANS FOR SUPPORTING SAME.

983,615.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY L. FERRIS, a citizen of the United States, residing at Harvard, in the county of McHenry and State of Illinois, have invented a new and useful Improvement in Tracks and Means for Supporting Same, of which the following is a specification.

Figure 1 is a side elevation of my track showing the means for supporting the same; Fig. 2 is a section on the line 2 of Fig. 1; Fig. 3 is an enlarged side elevation of a portion of the track and one of its supports and Fig. 4 is a perspective view of one of the supports removed from the track.

Referring to the drawings, A is a track which is formed of two angle-irons parallel to each other, one flange of each angle-iron extending outward to form a horizontal surface and one flange of each angle-iron extending upward, the two upwardly extending flanges being spaced apart by spreaders *a* and riveted together so that a space is left between the two angle-irons. This form of track is commonly used for various sorts of conveyers such as are used upon farms, particularly for feed and litter carriers, milk-can carriers, hay carriers and the like. In erecting such track it is important that it shall lie in line, and it must as a rule be secured to the beams or joists of the barn or to other wooden members, either inside or outside of the barn. These beams, joists or other members are often at irregular heights and when the track runs transversely to the beams or joists, it is frequently necessary that the supporting means for the track be irregularly spaced.

I have provided a supporting means which is peculiarly simple and convenient and is further advantageous for the reason that the various supports can be spaced irregularly and that the track can be erected quite quickly so that it will support itself and the various supports can then be adjusted so as to bring all sections of the track into the same horizontal plane. It is manifestly advantageous to use a track support by which all the track can be put up quickly and in a rough way without careful adjustment and which can thereafter be adjusted one support at a time. Otherwise, it becomes necessary to put up each support initially with the greatest nicety. Each support consists of a bolt B, each bolt having a wood thread

b at its upper end and a machine thread *b*¹ at its lower end, the machine thread being surmounted by a flange *b*² and the bolt being provided with a squared portion *b*³ for engagement with a wrench. A nut C and a washer *c* can be threaded upon the machine thread *b*¹.

In erecting the track, holes are bored in the joists or other members by which the track is to be supported along the line of the track and the bolts B are screwed therein, as shown in Figs. 2 and 3, a wrench engaging with the squared portion *b*³ being useful for this purpose. The track is then slipped up over the lower ends of the bolts, the machine threaded portion *b*¹ passing into the medial slot between the track-members. The washers *c* and nuts C are loosely placed in position so as to hold up the track but leave the bolts free to be rotated. After the track is thus erected in a temporary way, the various bolts are screwed in or out of the joists so as to bring the track into exactly the right vertical line and the nuts C are then set up tightly so as to lock the whole structure firmly together and, incidentally, to prevent further accidental rotation of the bolts in the joists.

I realize that considerable variation is possible in the details of the construction, without departing from the spirit of my invention; therefore I do not intend to limit myself to the specific form herein shown and described.

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

1. The combination with a centrally slotted track, of a series of supports therefor in the form of bolts, each having at its upper end a thread to engage a wooden beam, each having a portion to be engaged by a tool for rotating it, and each having at its lower end a part passing through the slot and means for holding the track upon said part.

2. The combination with a centrally slotted track, of a series of supports therefor in the form of bolts, each having a thread at its upper end to engage a wooden beam, each having a squared portion to be engaged by a wrench for rotating it, and each having at its lower end a part passing through the slot in the track and means for holding the track upon said part.

3. The combination with a centrally slotted track, of a series of supports therefor in the

form of bolts, each having a thread on its upper end to engage a wooden beam, each having a portion to be engaged by a tool for rotating it, and each having a threaded lower part passing through the slot and surmounted by an enlargement to supply an upper abutment for the track and a nut screwed upon said lower part to hold said track in position.

4. The combination with a centrally slotted track, of a series of supports therefor in the form of bolts, each having a thread at its upper end to engage a wooden beam, each having a squared portion to be engaged by a wrench for rotating it, and each having a threaded lower part passing through the slot in the track and surmounted by an enlargement to supply an upper abutment for the track and a nut screwed upon said lower part to hold the track in position thereon.

5. The combination with a track having a medial perforation, of a series of supports therefor in the form of bolts, each having at its upper end a thread to engage a wooden beam, each having a portion to be engaged by a tool for rotating it, and each having at its lower end a part passing through the perforation and means for holding the track upon said part.

6. The combination with a track having a medial perforation, of a series of supports therefor in the form of bolts, each having a thread at its upper end to engage a wooden

beam, each having a squared portion to be engaged by a wrench for rotating it, and each having at its lower end a part passing through the perforation in the track and means for holding the track upon said part.

7. The combination with a track having a medial perforation, of a series of supports therefor in the form of bolts, each having a thread on its upper end to engage a wooden beam, each having a portion to be engaged by a tool for rotating it, and each having a threaded lower part passing through the perforation and surmounted by an enlargement to supply an upper abutment for the track and a nut screwed upon said lower part to hold said track in position.

8. The combination with a track having a medial perforation, of a series of supports therefor in the form of bolts, each having a thread at its upper end to engage a wooden beam, each having a squared portion to be engaged by a wrench for rotating it, and each having a threaded lower part passing through the perforation in the track and surmounted by an enlargement to supply an upper abutment for the track and a nut screwed upon said lower part to hold the track in position thereon.

HENRY L. FERRIS.

In the presence of—

R. N. JACOBS,

R. A. HEMENWAY.