

983,262.

The image contains several technical drawings of a mechanical device, likely a hinge or a latch mechanism, with various components labeled with letters and figures.

- Fig. 1:** A perspective view of the main assembly. It shows a rectangular block (b) with a vertical plate (r) attached to its side. The plate has several holes (s). A curved arm (m) is attached to the bottom of the plate. The arm has a curved end (m') and a straight section (m''). A small component (p) is attached to the arm. A label 'q' points to a part of the arm.
- Fig. 2:** A side view of the main assembly, showing the profile of the block (b) and the plate (r). The arm (m) is shown in profile, with its curved end (m') and straight section (m''). A label 'q' points to a part of the arm.
- Fig. 3:** A top view of the main assembly, showing the block (b) and the plate (r) from above. The arm (m) is shown in profile, with its curved end (m') and straight section (m''). A label 'q' points to a part of the arm.
- Fig. 4:** A detail view of the curved arm (m) and its end (m'). It shows a cross-section of the arm and a small component (o) attached to its end.
- Fig. 5:** A detail view of the plate (r) and its attachment to the block (b). It shows the plate (r) with several holes (s) and a small component (u) attached to its end.

The drawings are labeled with letters: a, b, c, d, e, f, g, h, i, j, k, l, m, m', m'', m'', m'', n, o, p, q, r, s, t, u, v, w, x, y, z. The figures are labeled Fig. 1, Fig. 2, Fig. 3, Fig. 4, and Fig. 5.

Fig. 2.

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UNITED STATES PATENT OFFICE.

GEORGE BEATTY, WILLIAM G. BEATTY, AND MILTON J. BEATTY, OF FERGUS, ONTARIO, CANADA.

SUSPENDED TRACK AND TRACK-HANGER.

983,262.

Specification of Letters Patent.

Patented Feb. 7, 1911.

Application filed October 26, 1910. Serial No. 589,234.

To all whom it may concern:

Be it known that we, GEORGE BEATTY, WILLIAM G. BEATTY, and MILTON J. BEATTY, of the town of Fergus, in the county of Wellington and Province of Ontario, Canada, have invented certain new and useful Improvements in Suspended Tracks and Track-Hangers; and we hereby declare that the following is a full, clear, and exact description of the same.

Our invention relates to a suspended track in which the tread and base project laterally beyond each side of the web, forming seats for the fish plates connecting the adjacent ends of the track segments, the edges of the fish plates contacting the shoulders formed by the junction of the tread and base with the web to stiffen the joints and prevent the flexion of the track.

Our invention also relates to the construction of the track hanger and to the fastening swivels by which the track hangers are connected to the supporting structure from which the former are suspended.

For an understanding of our invention, reference is to be had to the following description and to the accompanying drawings in which:

Figure 1, is a perspective view showing the adjacent ends of two track segments connected together by fish plates and bolts, and a track hanger and fastening swivel holding the track suspended from a supporting structure. Fig. 2, is a perspective view of the adjacent ends of two track segments, with the fish plates removed. Fig. 3, is a perspective view of the lower end of the track hanger. Fig. 4, is a side elevation of the same, and Fig. 5, is a perspective view of the fastening swivel for the track hanger.

Like characters of reference refer to like parts throughout the specification and drawings.

The track, consisting of any number of track segments a having elongated slots l arranged lengthwise of the latter, is suspended by track hangers m from a supporting structure b . The tread c and base d of each track segment project beyond each side of the web e and form with the web lengthwise seats f for the fish plates h .

To prevent the flanges of the wheels traveling on the track coming into contact with the edges of the fish plates, the depth

of the tread is made slightly greater than the depth of the flanges.

In the adjacent ends of the track segments are bolt holes g and in the fish plates are bolt holes i registering with the bolt holes g , the latter being preferably of an elliptical shape to compensate for any inaccuracy in the position of the bolt holes i . Passing through the bolt holes of the fish plates and track segments are bolts j provided with nuts k . The depth of the fish plates corresponds with that of the seats f so that the top and bottom edges of the fish plates will engage the shoulders formed by the web with the tread and base to stiffen the joints of the track segments and prevent the flexion of the track.

Each track hanger m consists of a vertical arm m'' having a horizontal offset m^3 at its lower end, and a corresponding offset m^4 at its upper end. The free end of the offset m^3 is provided with a shank m' having an elliptically shaped button o , the dimensions of which are less than those of the slot l , but the length of which is greater than the width of the slot. When the track hanger is in the position shown in Fig. 1, the length of the button is transverse to the length of the slot, so that it will engage the web at the sides of the slot.

To connect the track hanger to the track, the former is turned into a position at right angles to that shown in Fig. 1, and the button is then passed through the slot, the track hanger then being turned into the position shown in Fig. 1, so that the button will engage the side of the web and by reason of its length being greater than the width of the slot will connect the track hanger to the track segment.

In the offset m^4 is an elongated narrow slot p having a central circular enlargement q for the shank r of the fastening swivel which consists of the shank having at one end a thin plate s of less dimensions than the slot p and at the other end a head t of greater dimensions than the circular enlargement q . In the plate s are screw holes u for fastening screws v connecting the track hanger to the supporting structure.

In assembling the parts, the track segments are coupled together by the fish plates and bolts, and the track hangers are then connected to the track segments as above

described, with the fastening swivel plate inserted through the slot p to be connected to the supporting structure. The head t being of greater dimensions than the circular enlargement q prevents the separation of the fastening swivel and the track hanger, and the shank r being of less dimensions than the circular enlargement provides for the fastening swivel being turned axially into any desired position to be connected to the supporting structure without necessitating any change in the track or track hanger.

Having thus fully described our invention what we claim as new and desire to secure by Letters Patent is:

1. A suspended track consisting of a track segment having a web with elongated slots therein, and a track hanger having an angularly disposed offset at its lower end with a button inserted through one of the elongated slots, and engaging the web at the sides thereof, and means for connecting the track hanger to a supporting structure.

2. A suspended track consisting of a track segment having a web with elongated slots therein, and a track hanger having an angularly disposed offset at its lower end with a button inserted through one of the elongated slots, and engaging with the web at the sides thereof, means for connecting the track hanger to a supporting structure, said means consisting of an angularly disposed offset at the upper end of the track hanger, having an elongated slot therein with a central enlargement, and a plate inserted through the elongated slot having a shank swiveled in the enlargement with a head preventing its withdrawal therefrom.

3. A suspended track consisting of a track segment in which the tread and base project laterally beyond the sides of the web, a fish

plate engaging the shoulders formed by the web and the tread and base, bolts passing through the fish plate and web, an elongated slot formed in the web of the track segment, a track hanger having an angularly disposed offset at its lower end with a button inserted through the elongated slot and engaging the web at the sides thereof, and means for connecting the track hanger to a supporting structure.

4. A suspended track consisting of a track segment in which the base and tread project laterally beyond the sides of the web, a fish plate engaging the shoulders formed by the web and the tread and base, bolts passing through the fish plate and web, an elongated slot formed in the web of the track segment, a track hanger having an angularly disposed offset at its lower end with a button inserted through the elongated slot and engaging the web at the sides thereof, means for connecting the track hanger to a supporting structure, said means consisting of an angularly disposed offset at the upper end of the track hanger, having an elongated slot therein with a central enlargement and a fastening plate inserted through the elongated slot having a shank swiveled in the enlargement with a head preventing its withdrawal therefrom.

Fergus, October 13th 1910.

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