C. J. SOLEAU.

SWING HANGER.

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Fig. 1.

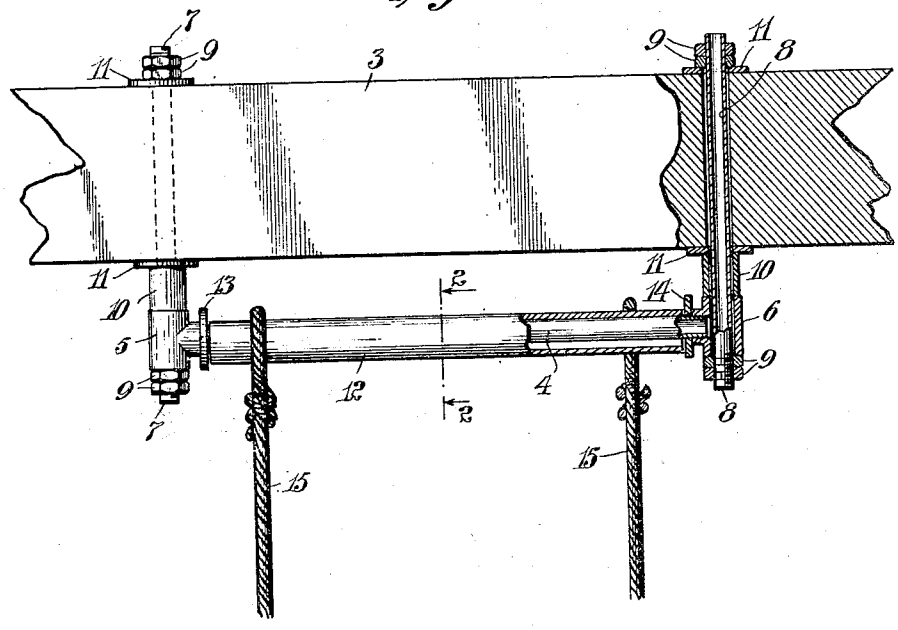
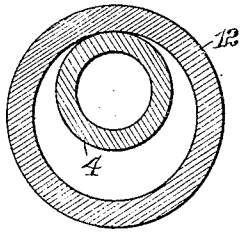


Fig. 2.



WITNESSES:

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SWING-HANGER.

1,258,267. Specification of Letters Patent. Patented Mar. 5, 1918.

Application filed May 7, 1917. Serial No. 166,826.

To all whom it may concern:

Be it known that I, CHARLES J. SOLEAU, a citizen of the United States, and a resident of Upper Montclair, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Swing-Hangers, of which the following is a full, clear, concise, and exact description, such as will enable others skilled in the art to which the invention relates to make and use the same, reference being made therein to the accompanying drawing, which forms a part of this specification.

My invention relates to hangers or supports to which the ends of a swing rope may be secured in installing or providing a child's swing in playgrounds and similar places of recreation, and the object thereof is to provide a swing hanger in which there will be no movement of the swing rope relative to the member to which it is tied in installing the swing, which movement if present would tend to wear the rope and weaken it to such an extent that it would be liable to break when the swing is in use and to result in injury to the person using the swing; and to provide a swing hanger which may be readily and cheaply manufactured, which will be simple in construction, and effective for the purpose for which it is designed.

With the above and other objects of invention in view, my invention consists in the improved swing hanger illustrated in the accompanying drawing and hereinafter described and claimed, and in such variations and modifications thereof as will be obvious to those skilled in the art to which my invention relates.

In the drawing accompanying and forming a part of this specification:

Figure 1 is a view illustrating my invention partly in elevation and partly in section; and,

Fig. 2 is a view showing a section upon a transverse plane indicated by the line 2, 2, Fig. 1, upon a larger scale.

Referring to the drawing wherein the preferred embodiment of my invention is illustrated, the reference numeral 3 designates a suitable support, such, for example, as an elevated beam, from which my improved swing hanger is supported; and 4 designates a supporting bar formed preferably of a piece of ordinary wrought iron pipe supported in a stationary and fixed position a short distance below the beam 3 by means of two supporting members 5, 6, secured one to each end of the bar 4 as by means of the screw threaded connections between the parts shown in the drawing.

The supporting members 5, 6, may be and preferably are ordinary T pipe couplings such as may be readily purchased in the open market and, after they have been secured in place upon the ends of the supporting bar 4, the longitudinal passages or runs with which they are provided will form vertically extending passages or openings through which bolts may extend to thereby support the said supporting members and the bar 4 from the beam 3. The bolts here referred to are designated by the reference numerals 7, 8; and they also are preferably made from pieces of ordinary wrought iron pipe threaded at each end as shown, said bolts extending through holes provided in the beam 3 and suitable nuts 9 being placed upon the upper and lower ends thereof to hold the supporting members in place and the bolts within the holes in the beam. Suitable means, such, for example, as spacing sleeves 10 surrounding the bolts are preferably provided for spacing the supporting members 5, 6, and the supporting bar 4 a definite and fixed distance below the beam, and for securing a rigid structure when the nuts 9 are tightened; and suitable washers as shown at 11 will ordinarily be employed to secure increased bearing surface upon the beam 3, as will be understood.

The reference numeral 12 designates a tubular member surrounding the supporting bar 4 and extending between the supporting members 5, 6, the length of said tubular member corresponding approximately with the distance between the supporting members; although it is slightly less than that distance in order to provide room for two annular guard members 13, 14, carried by the supporting bar and located between the ends of the tubular member and the supporting members, as shown.

The ends of the swing rope 15 are tied to the tubular member 12 as securely as possible, as there should be no sliding of the rope around or along the said member when the swing is in use, and, in order to more effectively prevent possible sliding of the rope around or along the tubular member the ends of the rope may advantageously be passed two or more times about the tubular member before being tied. The tubular

member is considerably larger in diameter than the bar 4 and, as the same oscillates with the swing rope, its movement relative to the bar is for the most part a rocking movement, or rather a rolling movement of the tubular member upon the bar, as distinguished from a sliding movement thereupon; the tubular member rocking upon the bar much as it would upon a knife edge for all ordinary movements of the swing. The tubular member should be capable of but slight movement longitudinally of the supporting bar, just enough to prevent binding and permit it to rock freely thereupon, so that there will be no space between the ends of the tubular member and the supporting members for the rope to be drawn into and abraded when the swing is in use; and the purpose of the annular guard members 13, 14, above referred to is to prevent the rope from slipping from the ends of the tubular member and onto the supporting members, or from being drawn into such slight spaces as may exist at the ends of the tubular member, which would result in cutting or wearing of the rope as will be appreciated.

Having thus described and explained my invention, I claim and desire to secure by Letters Patent:

1. In a swing hanger, a stationary supporting bar; two supporting members secured one to each end of said bar and having each an opening; a tubular member surrounding said bar and extending between said supporting members, said tubular member being free to rock upon said supporting bar; and two bolts one extending through the opening aforesaid in each of said supporting members whereby said members are supported from a suitable support.

2. In a swing hanger, a stationary supporting bar; two supporting members secured one to each end of said bar and having each an opening; a tubular member surrounding said bar and free to rock thereupon, the length of said tubular member corresponding approximately with the distance between said supporting members; and two vertically extending bolts one extending through the opening aforesaid in each of said supporting members whereby said members are supported from a suitable support.

3. In a swing hanger, a stationary supporting bar; two supporting members in threaded engagement with and located one at each end of said bar and having each a vertically extending opening; a tubular member surrounding said bar and extending between said supporting members, said tubular member being free to rock upon said supporting bar; two vertically extending bolts one extending through the opening aforesaid in each of said supporting members whereby said members are supported from a suitable support; and means for spacing said supporting members away from said support.

4. In a swing hanger, a stationary supporting bar; two supporting members secured one to each end of said bar and having each an opening; a tubular member surrounding said bar and free to rock thereupon; an annular guard member located between each end of said tubular member and the adjacent supporting member; and two bolts one extending through the opening aforesaid in each of said supporting members whereby said members are supported from a suitable support.

5. In a swing hanger, a stationary supporting bar; two supporting members in threaded engagement with and located one at each end of said bar and having each a vertically extending opening; a tubular member surrounding said bar and free to rock thereupon; an annular guard member located between each end of said tubular member and the adjacent supporting member; two vertically extending bolts one extending through the opening aforesaid in each of said supporting members whereby said members are supported from a suitable support; and two spacing sleeves one surrounding each of said bolts, said sleeves serving to space said supporting members away from said support.

In testimony whereof I have signed my name to this specification this 2nd day of May, 1917.

CHARLES J. SOLEAU.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."