A. J. NUSS.

SWING HANGER.

APPLICATION FILED JULY 19, 1920.

1,373,259. Patented Mar. 29, 1921.

Fig. 1.

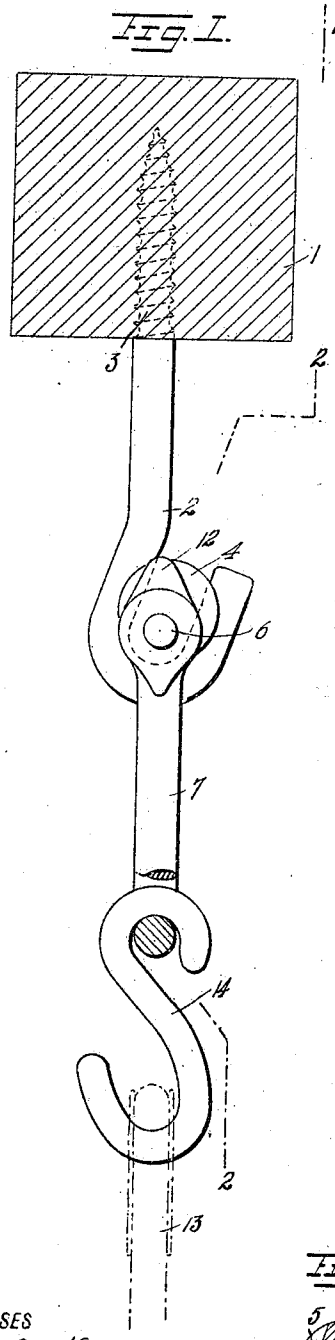


Fig. 2.

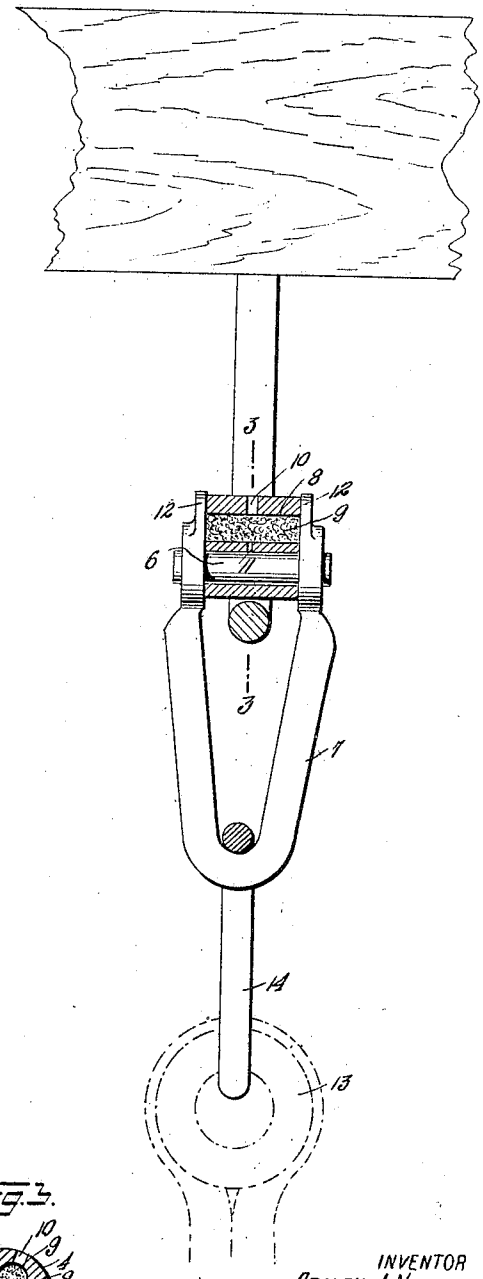
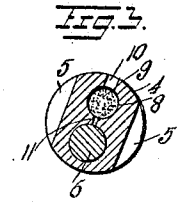


Fig. 3.



WITNESSES

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SWING-HANGER.

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To all whom it may concern:

Be it known that I, ADOLPH J. NUSS, a citizen of the United States, and resident of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented a new and Improved Swing-Hanger, of which the following is a full, clear, and exact description.

This invention relates to improvements in swing hangers, an object of the invention being to provide a self lubricating hanger which will overcome the annoyance of squeaking porch swings, and similar devices.

A further object is to provide a hanger which will be noiseless, and at the same time strong and durable in use.

A still further object is to provide a hanger of the character stated, and a hanger mounting which will be comparatively cheap to manufacture, but which will efficiently perform the functions for which they are intended.

With these and other objects in view, the invention consists in certain novel features of construction and combination and arragements of parts, as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings,

Figure 1 is a view in side elevation showing my improved hanger in use.

Fig. 2 is a view mainly in front elevation, but partly in section, on the staggered line 2—2 of Fig. 1.

Fig. 3 is a view in transverse section through the bearing sleeve on the line 3—3 of Fig. 2.

Referring in detail to the drawings, 1 represents the cross beam of a porch or some similar suitable support, for a swing, in which is located the threaded end 3 of a hook 2. The hook 2 is preferably U shaped at its free end to receive a short eccentrically bored bearing sleeve 4, the bearing sleeve 4 being provided with a pair of diametrically opposed grooves or recesses 5 which conform to the shape of the hook.

The walls of the grooves or recesses 5 engage the hook retaining the bearing sleeve 4 tightly therein, and preventing a turning movement of the sleeve in the hook. A short shaft 6 is mounted in the bearing sleeve, and supports at its ends, a substantially U shaped hanger 7, which is perforated at its extremities to receive the shaft 6.

The bearing sleeve 4 is formed with a longitudinal bore forming a chamber 8 located above the shaft 6 adapted to receive a wick or other form of absorbent packing 9. The wick 9 is adapted to be saturated with oil or suitable lubricating liquid. An opening 10 in the top of the sleeve permits the introduction of oil into the wick, and an opening 11 allows the oil to leak from the wick around the shaft 6.

The hanger 7 at its extremities, is formed with a pair of integral extensions or ears 12, normally closing the ends of the chamber 8 and maintaining the wick 9 in position. The contact of the ears 12 within the wick serves to further lubricate the hanger.

A swing 13 depends from the hanger 7, any preferred type of connecting device 14 being used to suspend the swing from the hanger. It will be noted that the hanger not only serves to eliminate noise, but also to minimize wear at the point of suspension. It obviates the danger of the cable or connecting device becoming worn through or breaking from continued friction and wear.

While I have described my invention in connection with a porch swing, it is obvious that the hanger may be used to advantage with numerous forms of swinging devices, and while I have illustrated the preferred embodiment thereof, it is apparent that various slight changes and alterations might be made in the general form of the parts described without departing from my invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of the appended claims.

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

1. A device of the character stated, comprising a hook, a bearing sleeve having diametrically opposed grooves in its outer face, the walls of said grooves coöperating with a hook to prevent lateral, longitudinal or rotary movement of the sleeve within the hook, a hanger pivotally suspended from

the sleeve, and an oil saturated wick in the sleeve lubricating the pivotal connection of the hook and hanger.

2. A device of the character described, comprising a U shaped hook, a bearing sleeve having parallel bores, and having diametrically opposed grooves therein, the walls of said grooves fitting said hook, one of said bores constituting a bearing and the other of said bores constituting a receptacle, a wick in the receptacle, said sleeve having a port therein connecting the bores, said sleeve having a port therein connecting the outside of the sleeve with the receptacle, a shaft mounted in the bearing, a U shaped hanger carried by the ends of the shaft, and extensions on the extremities of the hanger normally closing the ends of said receptacle.

ADOLPH J. NUSS