

1,247,500.

Patented Nov. 20, 1917.

Fig. 1.

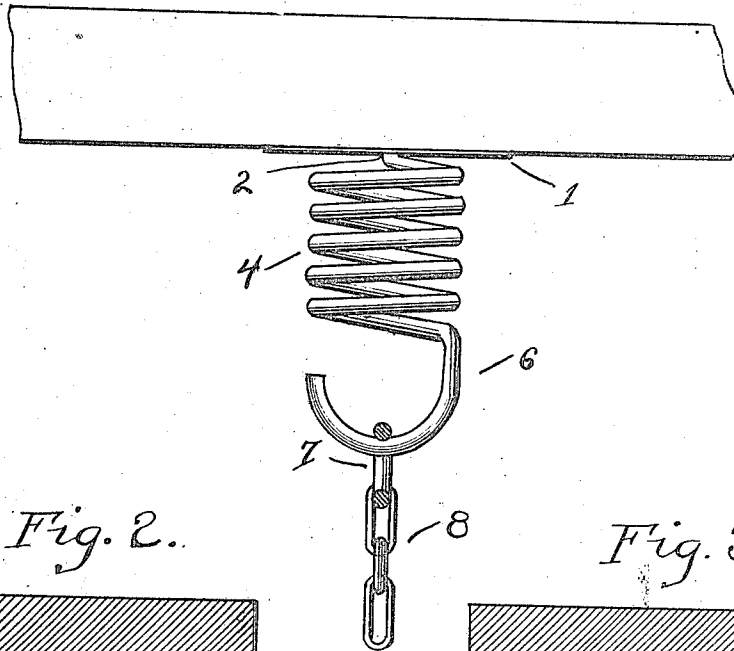


Fig. 2.

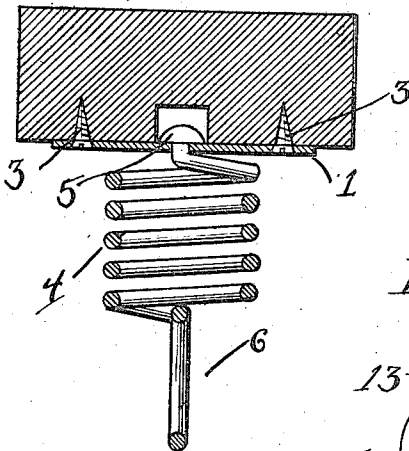


Fig. 3.

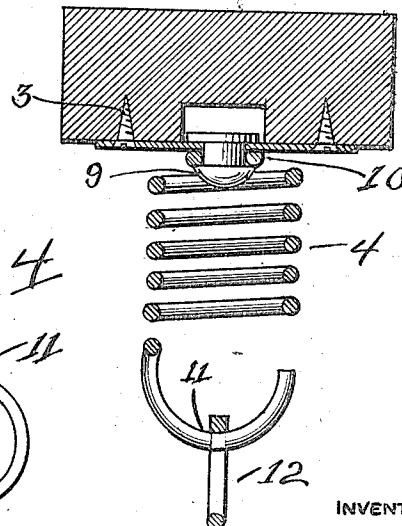
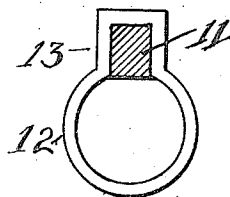


Fig. 4.



WITNESSES

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SWING-HOOK.

1,247,500.

Specification of Letters Patent.

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Application filed April 24, 1917. Serial No. 164,181.

To all whom it may concern:

Be it known that I, GEORGE D. BULMER, a citizen of the United States, residing at Duquesne, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Swing-Hooks, of which the following is a specification.

This invention relates to a swing supporting device or hook and has for its primary object to construct a hook that will allow the free action of the swing while at the same time preventing noise.

An object of the invention is to so construct a hook that rubbing surfaces will be prevented, thus eliminating wear and noise.

Besides the above my invention is distinguished in the use of a coil spring forming one element of the device whereby a certain amount of elasticity will be given to the swing.

With these and other objects in view the invention will be better understood from the following detailed description taken in connection with the accompanying drawing wherein:—

Figure 1 is a side elevation of the invention.

Fig. 2 is a sectional view thereof.

Fig. 3 is a view of a modified form of my invention.

Fig. 4 is a detail sectional view of Fig. 3.

Referring more particularly to Figs. 1 and 2 the numeral 1 designates a plate provided with a series of openings 2 one of which is arranged in the center of the plate while the remaining openings are arranged adjacent the edges of the plate and are adapted to receive securing elements 3. A coil spring 4 of the proper strength is provided and has one of its ends passed through the central opening and upset as indicated in 5, while its other end portion is formed into a hook 6 for supporting a ring 7 that in turn supports the swing chain 8.

From this arrangement it will be seen that in the movement of the swing the coil spring will be deflected laterally thus giving a certain amount of movement to the ring 7. At this point I wish to call attention to the fact that the frictional engagement between the ring 7 and the hook 6 is of a degree great enough to allow the elasticity of the spring to come into play thus preventing movement of the ring upon the hook, thereby eliminating wear and sound.

That form of my invention illustrated in Fig. 3 is identical with that just described with the exception that a rivet 9 is provided which secures a loop 10, in which one end of the spring is formed, to the plate.

The other end of the spring is formed into a hook with a portion of its surface flattened as indicated at 11. Coöperating with the flattened surface 11 is an improved form of ring 12. This ring is provided with an offset 13 that forms a square space, the walls of which are adapted to lie in flat contact with the flattened surface 11, thus insuring the lateral movement of the spring and the ring as a unit during the movement of the swing.

From the foregoing description taken in connection with the accompanying drawing it should be apparent that I provide a noiseless supporting device for a swing by means of which a certain amount of resiliency will be given to the swing proper.

What I claim is:—

A swing supporting device comprising in combination a plate, a coil spring having one end riveted to the plate and its other end formed into a hook, a portion of the surface of which being flattened and a ring constructed to grip the said flattened surface.

In testimony whereof I affix my signature.

GEORGE D. BULMER.