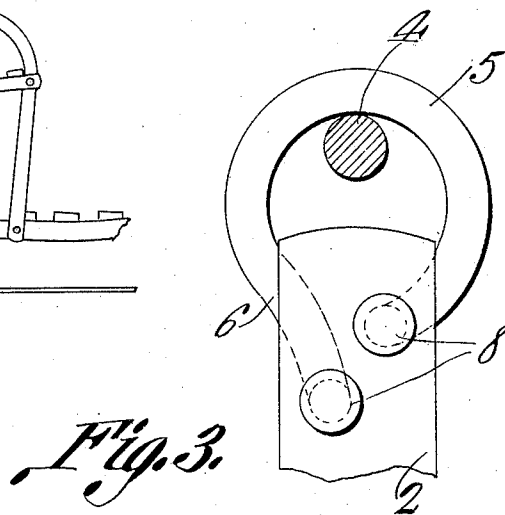
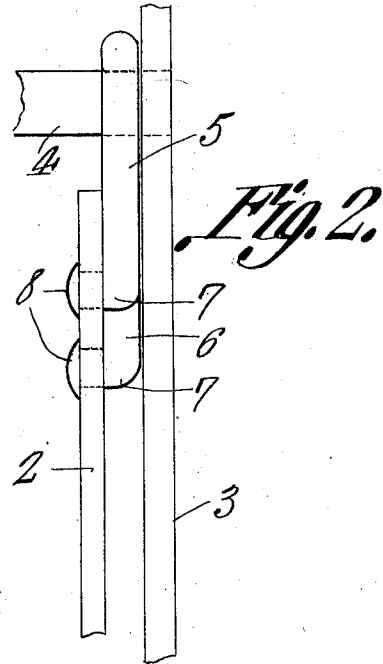
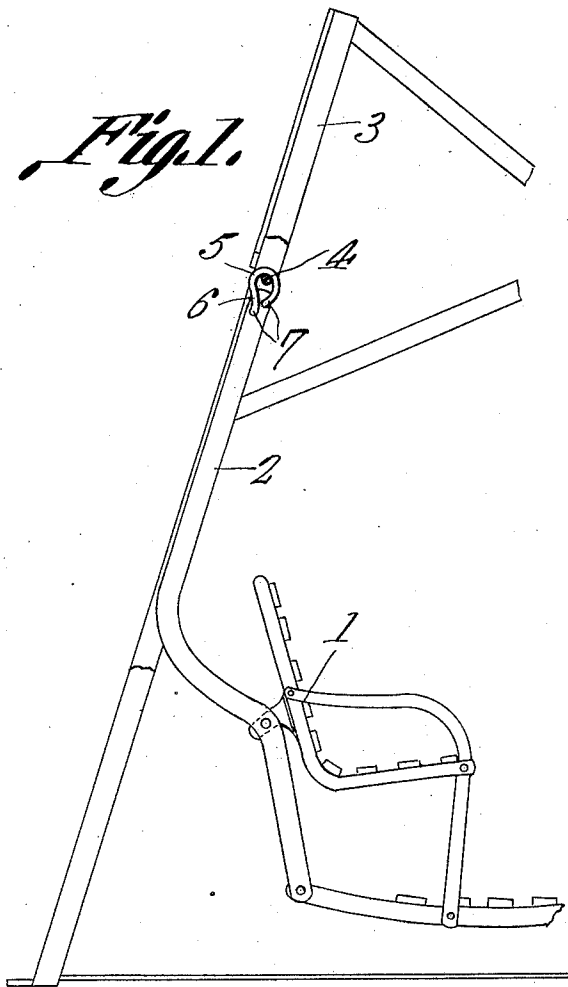


R. S. BUCH.
RING BEARING FOR SWINGS.
APPLICATION FILED JAN. 17, 1911.

1,044,133.

Patented Nov. 12, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

ROYER S. BUCH, OF ELIZABETHTOWN, PENNSYLVANIA.

RING-BEARING FOR SWINGS.

1,044,133.

Specification of Letters Patent.

Patented Nov. 12, 1912.

Application filed January 17, 1911. Serial No. 603,163.

To all whom it may concern:

Be it known that I, ROYER S. BUCH, a citizen of the United States, residing at Elizabethtown, in the county of Lancaster and State of Pennsylvania, have invented a new and useful Ring-Bearing for Swings, of which the following is a specification.

This invention relates to ring bearings for use in connection with metal swings and similar structures, the principal object of the invention being to provide a simple form of eye at the upper end of a hanger and which is adapted to engage, and be supported by a pivot rod or the like, the structure of the bearing being such as to eliminate the necessity of lubricating the parts and being noiseless in operation, durable and easy to operate.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that change in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is a view partly in side elevation and partly in section of a portion of a metal swing having the present improvements applied thereto. Fig. 2 is an enlarged edge view of the bearing. Fig. 3 is a face view thereof, the pivot rod being shown in section.

Referring to the figures by characters of reference 1 designates a portion of a metal swing which can be of any desired construction, said swing being provided at each of its corners with a supporting hanger 2 formed of an elongated strip of metal extending between the standards of the supporting frame 3, said standards being connected by a pivot rod 4. Each of the hangers 2 has a bearing ring or eye at its upper end adapted to movably engage the pivot member 4. As shown in the drawings this ring is in the form of a short rod 5 about one-half of which is curved in the arc of a circle and merges into an eccentric terminal portion 6 which extends past but close to the opposed end of the rod, both ends of said rod being formed with laterally extending lugs 7. Hanger 2 has openings therein at

different distances from the upper end thereof and the lugs 7 are insertible into these openings and upset, as indicated at 8 so as to cause the rod to lie firmly upon one face of the hanger 2 with the crown portion thereof projecting beyond the end of the hanger and about the pivot member 4. By referring to Fig. 2 it will be seen that the bearing ring formed of this rod is located between the hanger 2 and the adjacent standard of the supporting frame 3, thus constituting a spacing means for holding the hanger away from the supporting standard.

In practice it has been found that by connecting the hangers to their supporting pivot members by means of bearing rings such as have been described, it becomes unnecessary to lubricate the parts and the hangers will swing easily and noiselessly.

What is claimed is:—

1. The combination with a support, and a pivot member, of a member mounted for oscillation, and an arcuate bearing element embracing the pivot member and spacing the oscillatory member from the support, said bearing element having terminals extending laterally from one side of said element and engaging the oscillating member.

2. The combination with a support, a pivot device, and a member mounted for oscillation, of an arcuate bearing element spacing the oscillatory member from the support and embracing the pivot device and bearing upon one side face of the oscillating member, there being projections upon the terminals of the bearing element and extending laterally from one side of said element and secured within said oscillating member.

3. The combination with a support, a pivot device, and a hanger, of an arcuate bearing element spacing the hanger from the support and embracing the pivot device and having its terminals contacting with one side face of the hanger, there being projections extending laterally from said terminals and at one side of the element and secured within the hanger.

4. The combination with a support, a pivot device and a hanger, of an arcuate bearing element spacing the hanger from the support and engaging the pivot device and projecting beyond the end of the hanger, the terminals of said element contacting with one side face of the hanger

there being extensions projecting laterally from the terminals and at one side of the bearing element and which are seated within the hanger, the free ends of the extensions being upset.

5 5. The combination with a pivot device and a support therefor, of a hanger, an arcuate bearing element embracing the pivot device and having its terminals contacting
10 with one side face of the hanger, said terminals constituting means for spacing the hanger from the support, there being projecting portions upon the terminals and extending laterally from one side of the element
15 and through the hanger, said portions being upset at their free ends.

6. The combination with a pivot device and a support therefor, of a hanger, and a connection between the hanger and pivot device,
20 said connection constituting means for spacing the hanger from the support.

7. The combination with a pivot device and a support therefor, of a hanger, an arcuate spacing element movably mounted
25 on the pivot device and projecting between

the hanger and support, that face of said device nearest the support being free of projections, and means extending from the opposite face of the connection and integral therewith, for engaging the hanger.

8. The combination with a pivot device and a support therefor, of a hanger, an arcuate bearing element embracing the pivot device and having its terminals converging downwardly and contacting with
35 one side face of the hanger, said terminals constituting means for spacing the hanger from the support, there being projecting portions upon the terminals and integral therewith, said portions extending laterally
40 from one side of the element and through the hanger, said projecting portions being upset at their free ends.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature
45 in the presence of two witnesses.

ROYER S. BUCH.

Witnesses:

WM. H. BARNES,
I. E. SHOOP.

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