July 31, 1951 A. J. BELISLE 2,562,520

LOCKING DEVICE FOR ROCKING-CHAIRS

Filed March 10, 1949

Fig. 3.

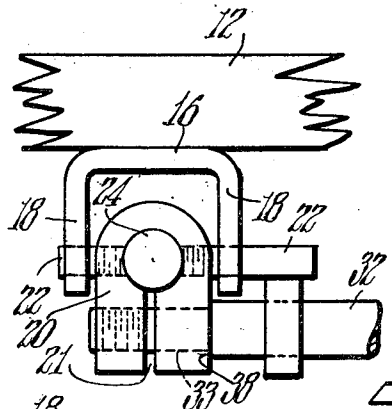
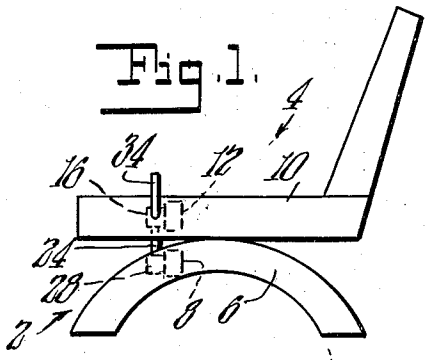
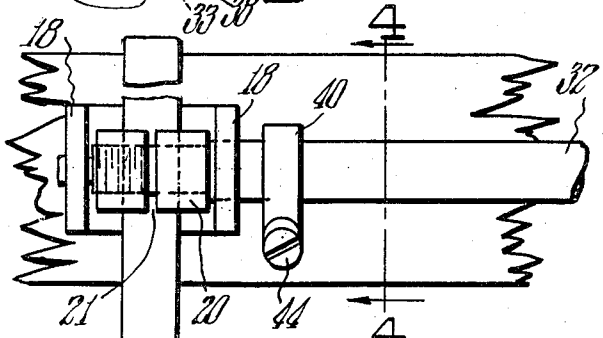
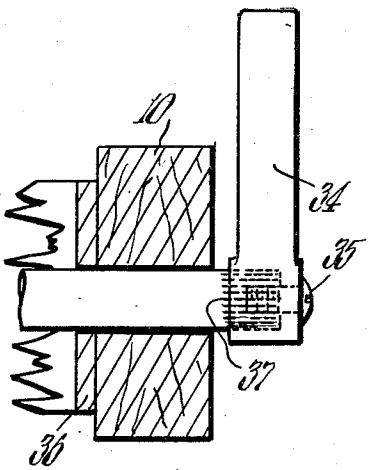


Fig. 1.







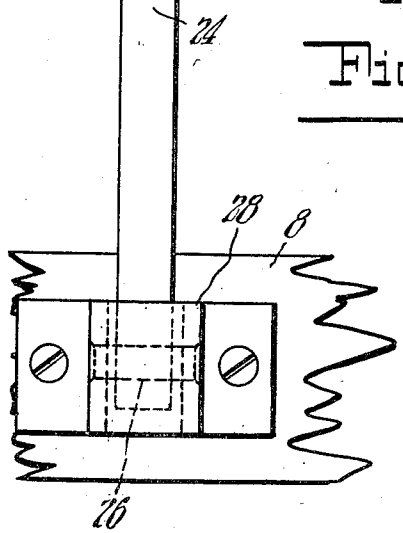


Fig. 2.

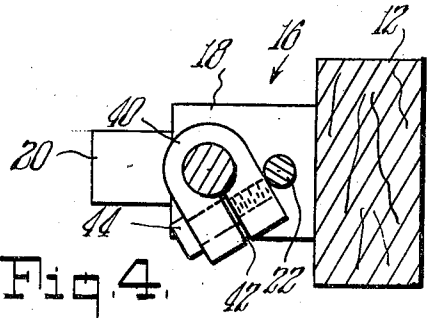


Fig. 4.

INVENTOR.
Adeland J. Belisle.
BY Ross & Ross

Patented July 31, 1951 2,562,520

UNITED STATES PATENT OFFICE

2,562,520

LOCKING DEVICE FOR ROCKING CHAIRS

Adelard J. Belisle, South Hadley, Mass., assignor to The Berkline Corporation, Chicopee, Mass., a corporation of Tennessee

Application March 10, 1949, Serial No. 80,720

3 Claims. (Cl. 155—72)

1

This invention relates to improvements in chairs and is directed more particularly to a rocking chair.

The principal objects of the invention are directed to the provision of novel mechanism for releasably locking the rocking seat of a chair to the base or support thereof so that one using the chair may assume various positions.

With the foregoing and various other novel features and advantages and other objects of my invention as will become more apparent as the description proceeds, the invention consists in certain novel features of construction and in the combination and arrangement of parts as will be hereinafter more particularly pointed out in the claims hereunto annexed and more fully described and referred to in connection with the accompanying drawings wherein:

Fig. 1 is a diagrammatic side elevational view of a chair embodying the novel features of the invention;

Fig. 2 is a partial transverse elevational view through the chair of Fig. 1 to explain the invention;

Fig. 3 is a plan view of a portion of the mechanism shown in Fig. 2; and

Fig. 4 is a sectional elevational view on the line 4—4 of Fig. 2.

Referring now to the drawings more in detail, the invention will be fully described.

A chair is shown in Fig. 1 which has a base or support 2 and a seat 4 arranged for rocking or rolling on the base.

The base has spaced side members 6 secured together by transverse members one of which is represented by 8. The seat has transverse members connected to side member 10 and one such transverse member is indicated by 12 for purposes of disclosing the invention.

A bracket 16 is secured to the member 12 by screws or bolts not shown and is provided with spaced side arms 18.

A clamp 20 has pivots 22 in screw threaded engagement therewith which are rotatably mounted in the side arms 18. This clamp is split at 22 and is provided with a bore for slidably receiving a rod 24. The rod 24 is pivotally connected at 26 to a bracket 28 which is secured to member 8 of the base by screws 30 or the like.

An operating member 32 having a manually engageable outer end portion 34 is oscillatable in side member 10 of the seat and a plate 36 secured thereto. The inner end 33 of the member 32 is freely rotatable in one side of the clamp and is provided with a shoulder 38, see Fig. 3, for abutting the clamp.

The extremity of member 32 is threaded, as

2

shown, and is in screw threaded engagement with the other side of the clamp. As the rod 32 is rotated in one direction the extremity screws into the threaded side of the clamp to draw the parts of the said clamp together and clamp and hold rod 24. Thus the rod 24 may be clamped to hold the seat in any desired position relative to the base. When the member 32 is swung in an opposite direction the rod 24 is released so that the seat may rock or roll on the base. The member 34 will have a locking and unlocking position.

Preferably the screw thread of member 32 will be such as to require but a small angle of movement of member 34 to lock or release rod 24.

The member 34 is preferably secured to member 32 by a screw 35 and knurling 37 on said member 32.

A stop 40 is provided on member 32 which is split at 42. A screw 44 in threaded engagement with the stop, as shown in Fig. 4, draws the sides of the stop together. In this way the stop may be secured to member 32 in any desired position and is arranged to abut one of the pivots 22 to limit movement of said member 32 in rod releasing direction.

The invention may be embodied in other specific forms without departing from the essential characteristics thereof. Hence, the present embodiments are therefore to be considered in all respects merely as being illustrative and not as being restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all modifications and variations as fall within the meaning and purview and range of equivalency of the appended claims are therefore intended to be embraced therein.

What it is desired to claim and secure by Letters Patent of the United States is:

1. In a rocking chair, a base, a seat rockably mounted on said base, a primary bracket fixed to said base, a slide rod having an extremity pivotally engaged with said primary bracket, a secondary bracket fixed to said seat and having spaced arms extending outwardly therefrom, a U-shaped clamp held in pivoted relation with the arms of said secondary bracket, said clamp having yieldable arms with a pair of aligned openings extending therethrough, said slide rod being slidably received between the arms of said clamp, and an operating member having a free end in threaded engagement with an opening of one of the arms of said clamp and extending through the opening of the other of the arms of said clamp, a shoulder on the free end of said operating member, all adapted and arranged

whereby said operating member may be oscillated to clamping position whereby said shoulder cooperates with the threaded end of said operating member and with said shoulder bearing against the unthreaded arm of said clamp to draw the arms of said clamp together to hold said slide rod in frictional locking relation therewith while when oscillated to non-clamping position the arms of said clamp may be moved away from each other to release said slide rod from frictional locking relation therewith.

2. In a rocking chair, a base, a seat rockably mounted on said base, a primary bracket fixed to said base, a slide rod having an extremity pivotally engaged with said primary bracket, a secondary bracket fixed to said seat and having spaced side arms extending outwardly therefrom, a U-shaped clamp held in pivoted relation between the side arms of said secondary bracket and having spaced yieldable arms with a pair of aligned openings extending therethrough, said slide rod being slidably received between the arms of said clamp, and an operating member having a free end in threaded engagement with one of the arms of said clamp and extending through the other of the arms of said clamp, a shoulder on the free end of said operating member, all adapted and arranged whereby said operating member may be oscillated to clamping position whereby said shoulder cooperates with the threaded end of said operating member and with said shoulder bearing against the unthreaded arm of said clamp to draw the arms of said clamp together, to hold said slide rod in frictional locking relation therewith while when oscillated to non-clamping position the arms of said clamp are moved away from each other to release said slide rod from frictional locking relation therewith.

3. A rocking chair having a base and a seat rockably mounted thereon and means for releasably locking said seat to said base comprising, a primary bracket fixed to said base, a slide rod having a lower extremity pivotally connected to said primary bracket, a secondary bracket fixed to said seat and having spaced side arms, a clamp member between said side arms provided with a longitudinal bore receiving an upper end portion of said slide rod, means connecting said clamp member and said side arms adapted and arranged for permitting the swinging of said clamp member relative to said side arms on an axis transverse to the longitudinal axis of the bore of said clamp member, said clamp member provided with a slot through a side thereof into the bore and parallel to the longitudinal axis thereof providing relatively yieldable side portions at opposite sides of the slot adapted to be moved towards one another by pressure applied thereto for clamping said slide rod in the bore, an operating member oscillatable relative to said side arms between slide rod clamping and releasing positions, and said operating member having means coacting with the side portions of said clamp member for moving one side portion towards the other side portion thereof to clamp said slide rod in the bore.

ADELARD J. BELISLE.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
323,429	Koken	Aug. 4, 1885
687,235	Ingells	Nov. 26, 1901
1,371,502	McManis	Mar. 15, 1921
2,456,043	Belisle	Dec. 14, 1948