

No. 753,362.

PATENTED MAR. 1, 1904.

F. H. CHILDS.
BEDSTEAD BRACE CLAMP.
APPLICATION FILED DEC. 29, 1903.

NO MODEL.

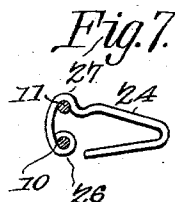
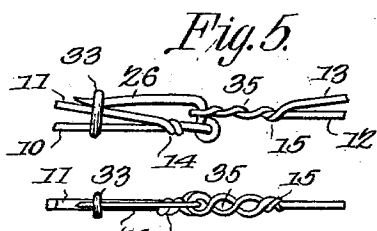
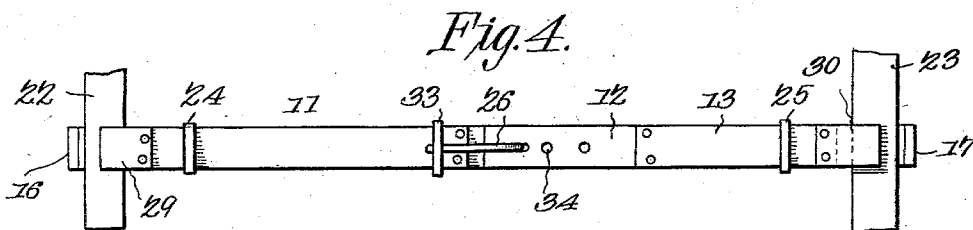
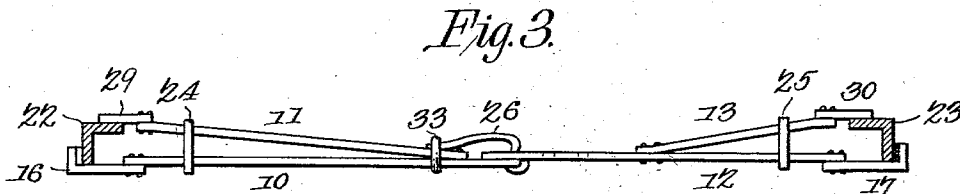
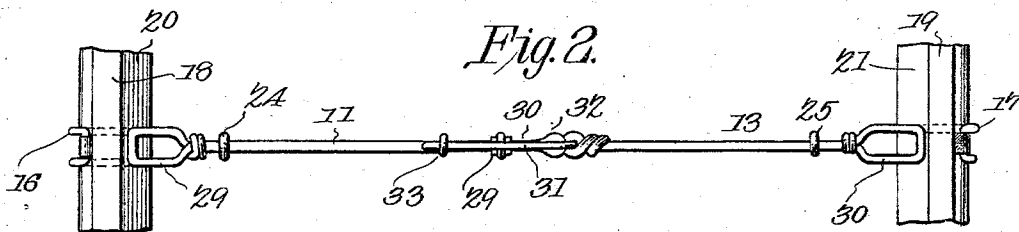
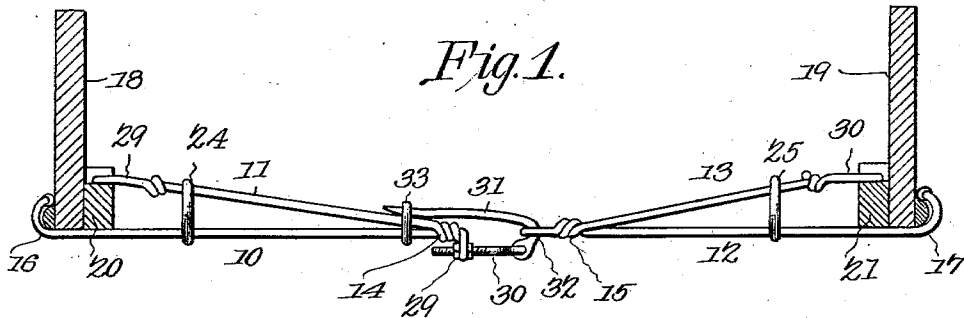
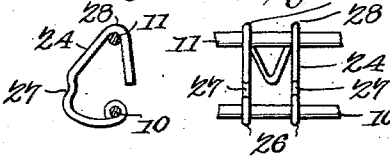


Fig. 8.

Fig. 9.



Witnesses
E. H. Stewart
C. H. Woodward

Fig. 6.

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UNITED STATES PATENT OFFICE.

FRANK H. CHILDS, OF STROUD, OKLAHOMA TERRITORY.

BEDSTEAD BRACE-CLAMP.

SPECIFICATION forming part of Letters Patent No. 753,362, dated March 1, 1904.

Application filed December 29, 1903. Serial No. 187,013. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. CHILDS, a citizen of the United States, residing at Stroud, in the county of Lincoln, Oklahoma Territory, have invented a new and useful Bedstead Brace-Clamp, of which the following is a specification.

This invention relates to attachments to bedsteads for preventing the spreading of the side rails, and has for its object to simplify and improve the construction of devices of this character and produce an attachment which may be readily applied to any of the various forms of bedsteads manufactured and without injury thereto or detracting from the appearance thereof; and with this and other objects in view, the nature of which will appear as the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages, and the right is therefore reserved of making all the changes and modifications which fairly fall within the scope of the invention and the claims made therefor.

In the drawings thus employed, Figure 1 is a transverse section of a portion of a bedstead with the improvement applied. Fig. 2 is a plan view of the parts shown in Fig. 1. Figs. 3 and 4 are views similar to Figs. 1 and 2, illustrating a modified form of construction. Figs. 5 and 6 represent a modified form of the coupling means. Figs. 7, 8, and 9 represent enlarged details of the clamping-link.

The improved device comprises bars 10 11 and 12 13, arranged in pairs and each pair united at their inner ends, as at 14 15, with

one end of each pair longer than the other and extended laterally, as at 16 17, for engaging the outer lower sides of the bedstead side rails, (represented at 18 19,) while the extremities 29 30 of the shorter bars engage the upper surfaces of the slat-cleats 20 21 when applied to ordinary wooden bedstead-rails, as in Fig. 1, or with the upper surface of the horizontal webs of the side rails 22 23 when employed upon the ordinary metal bedsteads, as in Fig. 3. Each pair of the bars will be provided with a slidable clamp-link, as at 24 25, by which means their free ends may be clamped firmly to the side rails, as will be obvious. The link members are formed, as shown in Figs. 7, 8, and 9, with one end, 26, coiled around the member 10 and with an intermediate offset 27 adapted to engage the member 11 when applied to the narrow side rails employed upon iron beds, as in Figs. 3 and 4, while the member 11 will be engaged by the terminal 28 of the link, as shown in Figs. 8 and 9, when employed upon the wider side rails of wooden bedsteads, as shown in Figs. 1 and 2. The links will preferably be formed with spaced sides, as shown in Fig. 9, to increase the steadiness of the action and prevent displacement upon the bars. By this simple means the same link may be employed for all the various sizes and forms of beds manufactured.

The adjacent ends of the united members 10 11 and 12 13 are connected by adjustable coupling means, as illustrated, consisting in a nut 29, connected near the united ends 14 of the members 10 11, with which a threaded rod 30 engages, the latter having an eye in its free end in which a hook 31 is movably connected. The inner terminal of the united members 12 13 is in the form of an eye 32 for engaging the hook 31, while the members 10 11 are provided with a sliding link 33, by which the hook may be "locked" in its closed position, as shown in Figs. 1 and 2. By this simple means the two main members of the device may be quickly coupled and adjusted to any required degree by merely rotating the rod 31, and thus adapt the device to different widths of the bedsteads.

In Figs. 1 and 2 the device is shown con-

structed of wire, with the lateral extensions and connecting means and other features formed by interentwisting the parts, while in Figs. 3 and 4 the members 10 11 and 12 13 are formed of flat bars, with the end members 16 17 29 30 formed separately, preferably of malleable iron, and connected to the bars, as by riveting, the inner ends being likewise connected, as by riveting. The hook member 26 in this modification is disposed to engage spaced apertures 34 in the member 12. The construction is substantially the same and the results produced are precisely the same in both forms shown, and either structure may be employed without departing from the principle of the invention or sacrificing any of its advantages.

In Figs. 5 and 6 a modified form of coupling is shown consisting in connecting the hook 26 directly to the united members 10 11 and with a plurality of apertures 35 formed in the other united members, 12 13, to receive the hook, similar to the modification shown in Figs. 3 and 4.

By this arrangement of parts, it will be noted, a very simply-constructed and easily-applied device is produced whereby the opposite side rails of a bedstead may be connected and firmly braced and supported and all tendency to spread apart and permit the slats or mattress to fall effectually obviated.

The device may be manufactured at small expense and of any suitable material and may be adjusted to any size of bedstead and is adaptable to all the various styles and forms of bedsteads manufactured, as above noted.

The terminals of the portions 16 17 will preferably be curved to avoid the moldings which are frequently attached to the outside lower edges of the side members 18 19 and will also preferably be guarded by coverings of felt, rubber, or other soft material to prevent abrasion.

The "range" of the device will be great enough to reach any width of bedstead or bedsteads having any size of side rail.

Having thus described the invention, what I claim is—

1. The herein-described clamp-brace for bedsteads comprising bars disposed in pairs and each pair united at their inner ends, one bar of each pair being longer than the other and extended laterally for engagement with the bedstead-rails and the shorter bars for engagement with the internal structure of the same, clamp-links slidably engaging said pairs of bars for compressing them upon the bed-

rails, and means for adjustably coupling the inner ends of said pairs of bars, substantially as described.

2. The herein-described clamp-brace for bedsteads comprising bars disposed in pairs and each pair united at their inner ends, and with means for detachably connecting the outer ends of said bars to the opposite bedstead-rails, one pair of said bars having a swinging hook adjustable longitudinally thereon and the other pair of said bars having an aperture for detachable engagement with said hook, and a sliding link for locking engagement with said hook when closed.

3. The herein-described clamp-brace for bedsteads comprising bars having at their outer ends means for detachable connection to the opposite rails and with a nut connected to the inner end of one of said bars and an aperture in the inner end of the other bar, a threaded rod adjustably engaging said nut and with a swinging hook in its outer end for engagement with the aperture in said brace member, and a sliding link for locking engagement with said hook when closed.

4. The herein-described clamp-brace for bedsteads comprising bars disposed in pairs and each pair united at their inner ends, and with means for detachably connecting the outer ends of said bars to the opposite bedstead-rails, clamp-links rotatively connected to one of said bars and slidable thereon and movably engaging the other bar by its free end and with an intermediate offset, whereby the link may be caused to couple differently-spaced bars.

5. The herein-described clamp-brace for bedsteads comprising bars disposed in pairs and each pair united at their inner ends, and with means for detachably connecting the outer ends of said bars to the opposite bedstead-rails, clamp-links formed with spaced sides and coupled rotatively at one end to one of said bars and slidable thereon and movably engaging the other bar by the free ends, each side having an intermediate offset, whereby the links may be caused to couple differently-spaced bars and prevented from displacement thereon.

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

FRANK H. CHILDS.

Witnesses:

T. R. HALL,
J. W. STROUD.