A. HILL.

JOINT FOR BED FRAMES.

APPLICATION FILED MAR. 7, 1912.

1,042,555. Patented Oct. 29, 1912.

Fig. 1.

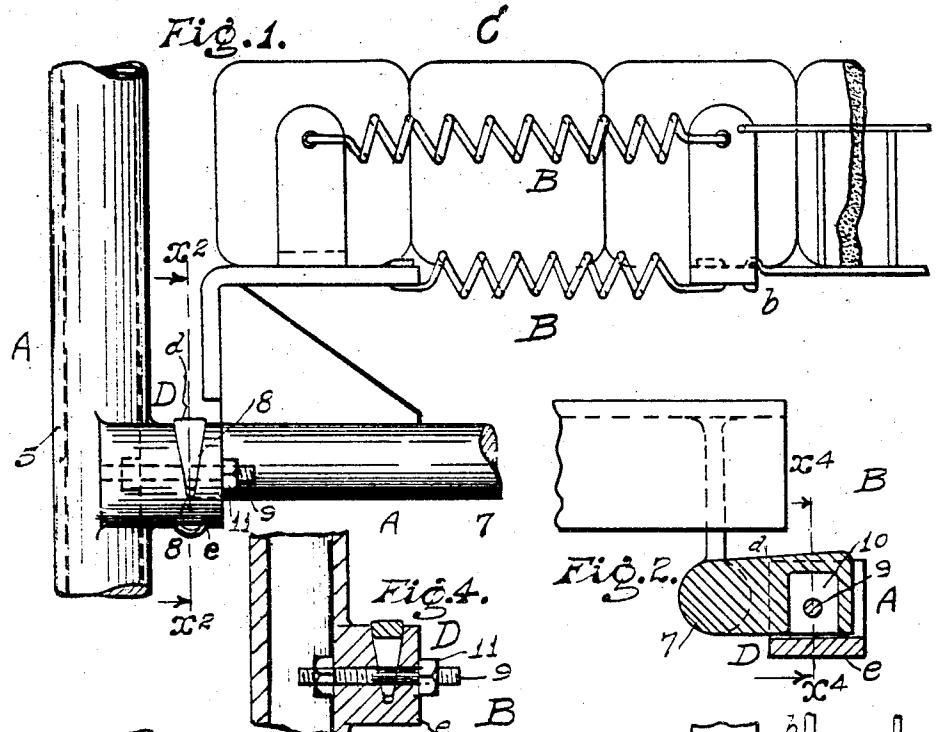

Fig. 2.

Fig. 4.

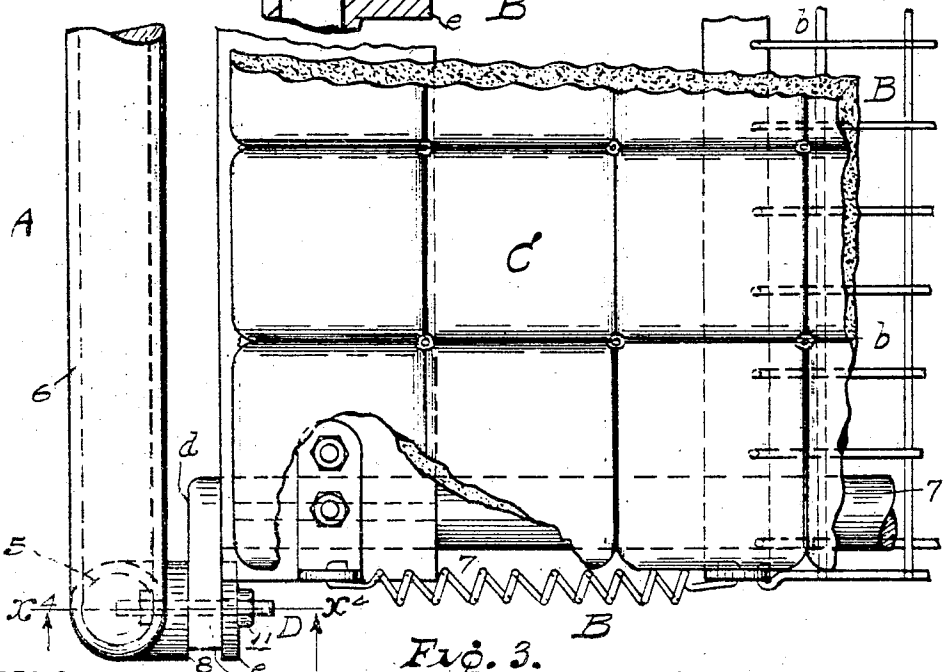

Fig. 3.

Witnesses:
W. F. Siemans.
H. M. Palmer.

Inventor:
Aaron Hill;
By Raymond Hull Blakesley,
His Attorney.

UNITED STATES PATENT OFFICE.

AARON HILL, OF NEAR LOS ANGELES, CALIFORNIA, ASSIGNOR OF ONE-FOURTH TO RAYMOND IVES BLAKESLEE, OF LOS ANGELES, CALIFORNIA.

JOINT FOR BED-FRAMES.

1,042,555. Specification of Letters Patent. Patented Oct. 29, 1912.

Application filed March 7, 1912. Serial No. 682,094.

To all whom it may concern:

Be it known that I, AARON HILL, a citizen of the United States, residing in Los Angeles county, near Los Angeles, State of California, have invented new and useful Improvements in Joints for Bed-Frames, of which the following is a specification.

This invention relates to joints for bed frames, more particularly for bed frames of the three-membered type, which comprise a head member, a foot member and a mattress member; the joints being provided between the latter member and both of the former members.

The invention has for its object to provide an improved joint for use in the relations stated, which will be superior in point of relative simplicity and inexpensiveness of construction and organization, facility in use and adjustment, positiveness in operation, and durability, and which will be generally superior in efficiency and serviceability.

With the above and other objects in view, the invention consists in the novel and useful provision, formation, construction, accommodation and adaptation of parts, members and features, all as hereinafter described, shown in the drawing, and finally pointed out in claims.

In the drawing:—Figure 1 is a fragmentary side elevation of a portion of a bed frame, showing the improved joint constituting or embodying the invention; Fig. 2 is a vertical fragmentary sectional view of the same, taken upon the line 2—2, Fig. 1; Fig. 3 is a top plan view of the construction shown in Fig. 1; and, Fig. 4 is a vertical sectional view taken upon the line 4—4, in each of Figs. 2 and 3.

Corresponding parts in all of the figures are denoted by the same reference characters.

Referring with particularity to the drawing, A designates the foot frame member and B designates the mattress frame member of a bed of which the head frame member is not shown, the same constituting essentially a duplication of the head frame member.

C designates the stuffed mattress which is customarily placed over the mattress frame member B, or the wire or like mattress *b* thereof.

D designates the improved joint which in the drawing is shown as connecting the member B with the member A. This joint permits the ready attachment and detachment of the members between which it is located or to which it is, in its component parts, applied.

The foot frame member A comprises the usual uprights or side portions 5, which are connected by the cross rail 6; and the mattress frame-member B includes the usual side rails, such as 7. Each of the joints D comprises a joint portion *d* connected with the respective side rail 7, and a joint portion *e* connected with the respective frame upright 5. The joint portion *d* consists of a head projecting laterally and outwardly from the end of the respective side rail 7, and the joint portion *e* comprises a head projecting longitudinally of the bed from the respective upright 5. The head *d* is wedge-shaped, tapering downwardly, and fitting within a complementary socket 8 in the head *e*, extending downwardly part-way through said head and entirely transversely thereof. A pin or bolt 9 passes lengthwise through the head *e* and through the socket 8 therein, crossing the same centrally, and being accommodated within a relatively enlarged notch or cut-out portion 10 within said wedge *d*, opening upwardly in the same, whereby the wedge *d*, when home in the socket 8, straddles the bolt 9. A nut 11 is applied to the outer end of the bolt 9, the inner end of said bolt being seated in the inner portion of the head *e*. The head *e* is preferably formed of metal having a slight spring quality, such as malleable iron, and the breadth of the socket 8, or its degree of openness, may be determined by adjusting the nut 11 upon the bolt 9, bearing against the outer end of the head *e*, so as to secure the proper fit of the head *d* within the socket 8.

The operation, method of use and advantages of the improved joints for bed frame constituting the invention will be readily understood from the foregoing description, taken in connection with the accompanying drawing and the following statements:—In using joints ordinarily provided for fitting together the members of bed frames of the type under consideration, difficulty is often experienced in conveniently and accurately obtaining an exact fit. This frequently results from the fact that the joint consists of two accurately fitting parts or portions, which must register exactly in bringing the

frame members together. If one or more of the frame members is slightly sprung out of shape or not accurately proportioned in dimensions, the proper registration of the joint portions is not possible. Furthermore, the joints often fit loosely or wear to fit loosely. Also it is customary to provide the joint at the ends of the side rail of the mattress frame members, and therefore if the mattress projects laterally of the side rails it extends beyond the lateral confines of the entire bed frame. It will be noted that all of these objections and disadvantages are overcome in the utilization of the improved joint constituting the invention. The transverse socket 8 and the relatively enlarged notch 10 in the head *d* allows compensation for lateral variation in the fit of the head *d* within the head *e* or the notch 8 therein, such head *d* freely straddling the bolt 9. Also, the socket 8 may be narrowed or widened to properly receive and fit the wedge-shaped head *d*, by adjusting the nut 10 upon the bolt 9, such wedge formation of the head *d* and the socket 8 causing a positive inter-locking engagement between the heads *d* and *e*. Extreme lateral displacement as between the two heads is prevented by the bolt 9 within the notch 10 in the head *d*. As the side rails 7 are inward of the joints D, the wire mattress *b* and the stuffed mattress C may extend laterally beyond the side rails 7 without extending beyond the side extremities of the entire bed frame. This is advantageous, as it prevents, by the over-lap, the catching and pinching or binding of the bedding or of the person resting upon the edge of the bed, or the hands of a person making up or attending to the bed, between the side rails and the wire or stuffed mattress or both. The improved joint is extremely simple and inexpensive in organization and positive, convenient and efficient in adjustment and service.

I do not desire to be understood as limiting myself to the specific provision, construction, formation and combination of parts, members and features shown and described; but reserve the right to vary the same, in adapting the invention to varying conditions of use and service, without departing from the spirit of the invention and the terms of the following claims.

Having thus described my invention, I claim and desire to secure by Letters Patent:—

1. An improved joint for bed frames and the like, comprising two portions respectively upon bed frame members and relatively adjustable transversely thereof, one of said portions comprising a wedge and the other of said portions having an open-ended socket receiving and fitting the wedge.

2. An improved joint for bed frames and the like, comprising two portions respectively upon bed frame members, one of said portions comprising a wedge and the other of said portions having an open-ended socket receiving and fitting the wedge; said joint projecting in entirety laterally clear of the member with which the wedge is connected.

3. An improved joint for bed frames and the like, comprising two portions respectively upon bed frame members, one of said portions comprising a wedge and the other of said portions having an open-ended socket receiving and fitting the wedge; the portion having the socket being provided with a bolt or the like crossing the socket and the wedge having a cut-out portion enlarged with respect to the bolt and whereby the wedge straddles the bolt.

4. An improved joint for bed frames and the like, comprising two portions respectively upon bed frame members, one of said portions comprising a wedge and the other of said portions having an open-ended socket receiving and fitting the wedge; the portion having the socket being provided with a bolt or the like crossing the socket and the wedge having a cut-out portion enlarged with respect to the bolt and whereby the wedge straddles the bolt; and a nut upon the bolt and bearing against the portion having the socket.

5. A joint for bed frames and the like, comprising two portions one of which fits within the other, and means for varying such fit under spring tension irrespective of the width of either member.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

AARON HILL.

Witnesses:
RAYMOND I. BLAKESLEE,
CHARLES D. WARDEN.

It is hereby certified that in Letters Patent No. 1,042,555, granted October 29, 1912, upon the application of Aaron Hill, of near Los Angeles, California for an improvement in "Joints for Bed-Frames," an error appears in the printed specification requiring correction as follows: Page 2, line 63, strike out the period and insert a semicolon and the words *said wedge and socket ranging transversely of the bed frame.;* and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 29th day of September, A. D., 1914.

[SEAL.]

R. F. WHITEHEAD,

Acting Commissioner of Patents.