H. A. JAVINS.

WALL BED.

APPLICATION FILED DEC. 28, 1909.

974,065.

Patented Oct. 25, 1910.

2 SHEETS—SHEET 1.

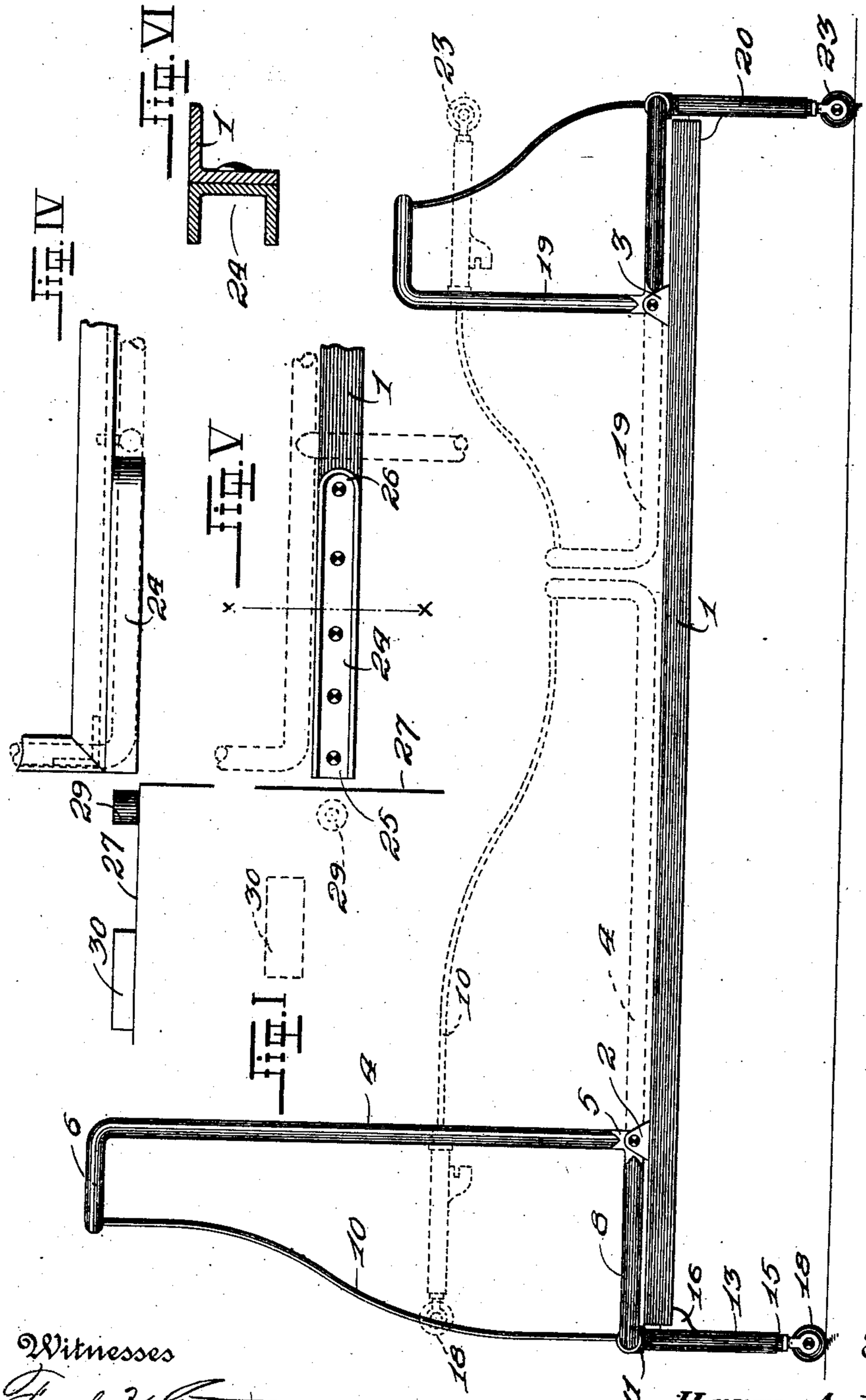

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Fig. II

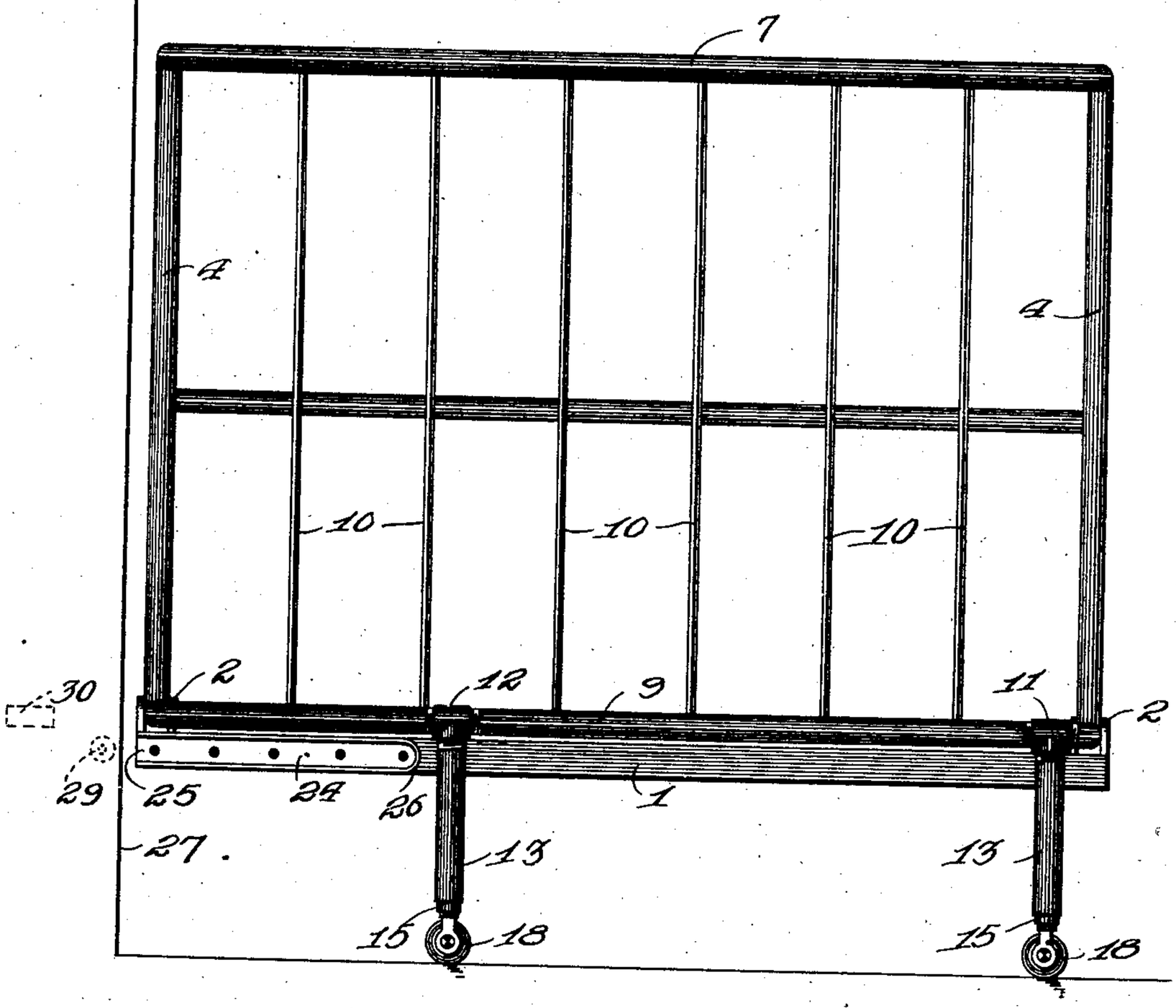
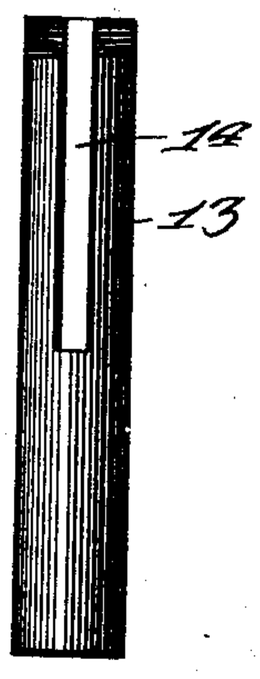


Fig. III a



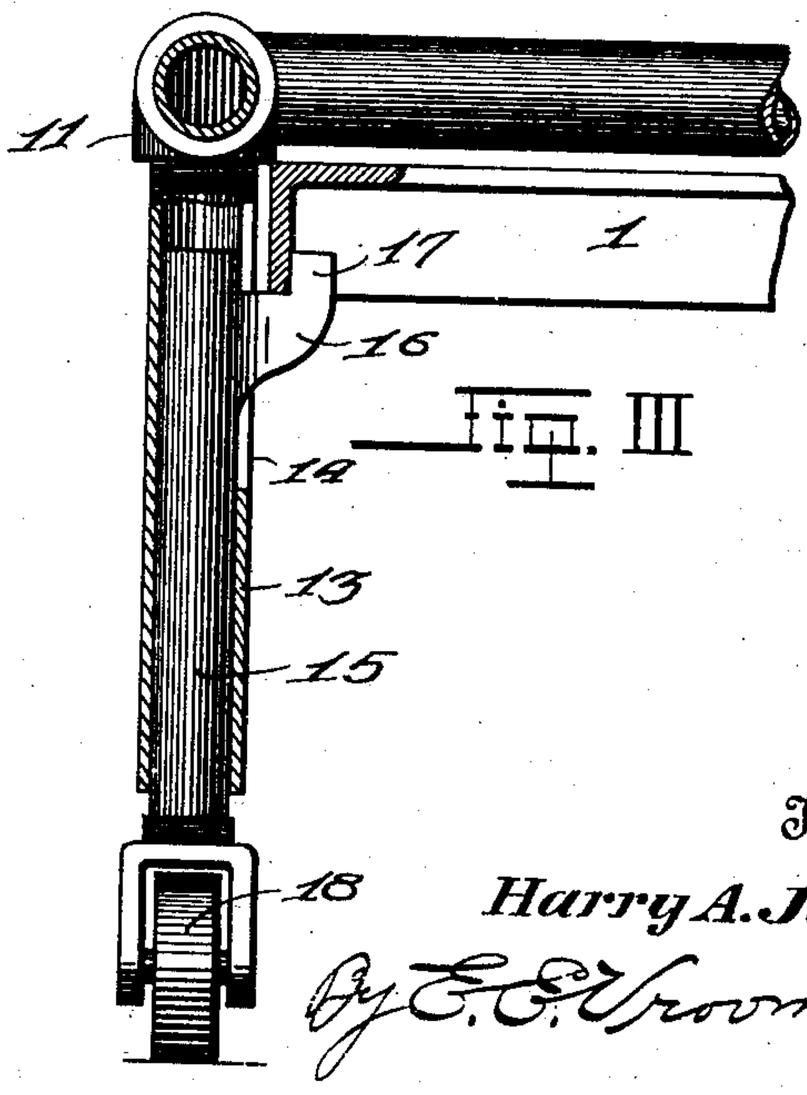


Fig. III

Witnesses

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UNITED STATES PATENT OFFICE.

HARRY A. JAVINS, OF BURLINGAME, CALIFORNIA, ASSIGNOR TO JAVINS MANUFACTURING COMPANY, A CORPORATION OF ARIZONA TERRITORY.

WALL-BED.

974,065. Specification of Letters Patent. **Patented Oct. 25, 1910.**

Application filed December 28, 1909. Serial No. 535,291.

To all whom it may concern:

Be it known that I, HARRY A. JAVINS, a citizen of the United States, residing at Burlingame, in the county of San Mateo and State of California, have invented certain new and useful Improvements in Wall-Beds, of which the following is a specification.

This invention relates to folding beds, and the principal object of the same is to provide a bed the head and foot of which may be folded upon the frame of the bed, and the bed then rocked upon suitable supports set in an alcove so that a curtain or portière may be used to conceal the bed.

In carrying out the object of the invention generally stated above it will be understood, of course, that the essential features thereof are necessarily susceptible of changes in details and structural arrangements, one preferred and practical embodiment of which is shown in the accompanying drawings, wherein:—

Figure I is a view in side elevation of the improved bed, dotted lines being used to indicate the folded positions of the head and foot thereof. Fig. II is a view in front elevation of the head thereof. Fig. III is a fragmentary vertical sectional view of the bed showing the manner of connecting the legs thereof. Fig. III[a] is a detail view of one of the leg supporting tubes. Fig. IV is a fragmentary top plan view of one end of the bed, also showing the wall pivot and a stop for said bed. Fig. V is an end view of the structure shown in Fig. IV. Fig. VI is a transverse vertical sectional view taken on the line *x*—*x*, Fig. V.

Referring to said drawings by numerals, 1 designates the rectangularly shaped frame that is preferably formed of angle iron, the side members of which are provided with head and foot upstanding pivot ears 2—3.

The head of the bed is preferably formed of a single length of tubing and comprises the vertical side members 4 the lower ends of which are flattened to provide pivot ears 5 that are pivotally fastened to the ears 2, the upper portion of said members being bent forwardly in a horizontal plane as indicated at 6 and then extended transversely across the bed in a horizontal plane as indicated at 7. The lower portion of the frame has the horizontal side members 8 that project beyond the forward end of the bed frame 1 and are connected by the transverse member 9 that extends across the front end of said frame. Upper transverse member 7 and lower transverse member 9 are connected by the spaced apart head bars 10.

Transverse member 9 is provided with two couplings 11—12, preferably T-couplings, coupling 11 being adjacent one end thereof, and coupling 12 being spaced from the other end. A tube 13 depends from each coupling, said tubes being provided with a longitudinal slot 14 that extends from their upper end to a point adjacent the center of said tubes, and said slots are arranged so that they will face the pendent side of the angle iron frame 1 when the tubes are connected to member 9. A shaft 15 is mounted in each tube 13 and is provided with a laterally projecting lug 16 having an upstanding lip 17 at its free end adapted to engage over the lower edge of the pendent side member of the angle frame 1 as clearly indicated in Fig. III. Said shafts project below the lower end of their tubes and are equipped with a caster 18.

The foot frame 19 is similar in all respects to the head frame excepting that it is of less height, said frame being pivotally mounted in the ears 3, and similarly provided with the slotted pendent tubes 20 for caster shafts 21 that are equipped with the lugs 22 for engagement with the bed frame and the supporting casters 23.

Each end member of the frame 1 at its end adjacent the supporting leg that is set-in, is provided with a channel iron strip 24 the outer end 25 of which is open and whose inner end 26 is closed and rounded.

As has been previously stated, the improved bed is especially adapted for use in connection with alcoves so that the bed may be folded and, if desired, concealed therein, and to facilitate the same, the vertical side walls 27 of an alcove 28 are provided with rollers or lugs 29 that are in alinement with the channel strips 24 of the frame so that as said bed is forced into the alcove, the rollers or lugs 29 will enter said channel strips until the rounded ends thereof are reached, whereupon said bed may be rocked on said rollers and pivots to an upright position, it being understood, of course, that the head and foot frames have been previously folded onto the bed frame 1 as indicated by dotted lines in Fig. I.

It will be obvious, that as the bed is rocked on its pivot in the alcove, the caster shafts will drop longitudinally of their tubes so that their lugs will be freed from engagement with the bed frame, the longitudinal movement of said shafts being limited by contact with ends of the slots in the tubes.

Stops 30 are provided on the walls 27 to prevent the outer side of the bed coming into sudden contact with the floor when the bed is being lowered, said stops being in a higher plane and arranged farther from the outer edge of said walls than the lugs or rollers 29.

What I claim as my invention is:—

1. A bed comprising a main frame, foldable foot and end frames pivotally connected thereto, pendent slotted tubes carried by said head and foot frames, a caster shaft slidable in each tube and provided with an outstanding lug that projects through the slotted portion of said tubes and normally engages with said main frame, and means carried by said main frame adapted for pivotal engagement with wall pivots.

2. A bed comprising a main frame, a foot frame and a head frame pivotally connected thereto, pendent tubes projecting from said foot and head frames, said tubes being longitudinally slotted, and a caster shaft slidably mounted in each tube and having an outstanding lug that projects through the slotted portion of said tube and normally engages with said main frame.

3. A bed comprising a main frame provided with pivot ears adjacent each end, a head frame and a foot frame pivotally mounted in the respective end ears of said main frame, said head and foot frames provided with an outwardly projected lower portion that extends beyond the end of said main frame, tubes projecting from the outer extended portion of said frames, and a caster shaft slidable in each tube and provided with means for normally engaging the said main frame.

4. A bed comprising a main frame, a foot frame and a head frame pivotally connected to the end portions thereof, pendent tubes projecting from said frames, said tubes being longitudinally slotted, a caster shaft slidable in each tube and provided with a laterally projecting lug having an end lip that normally engages said main frame, and a caster carried by each shaft.

5. A bed comprising a main frame, foldable head and foot frames pivotally connected thereto, supporting means projecting from said foot and head frames and normally engaging said main frame, and means carried by said main frame adapted for pivotal engagement with wall pivots to permit said bed to be rocked to an upright position.

6. A bed comprising a main frame, channel strips carried by the end members of said frame, said strips being located at the corners of said members and having an open outer end and a closed inner end and adapted for pivotal engagement with wall pivots, and foldable foot and head frames carried by said main frame.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY A. JAVINS.

Witnesses:
H. C. SCHROEDER,
F. P. SCHROEDER.