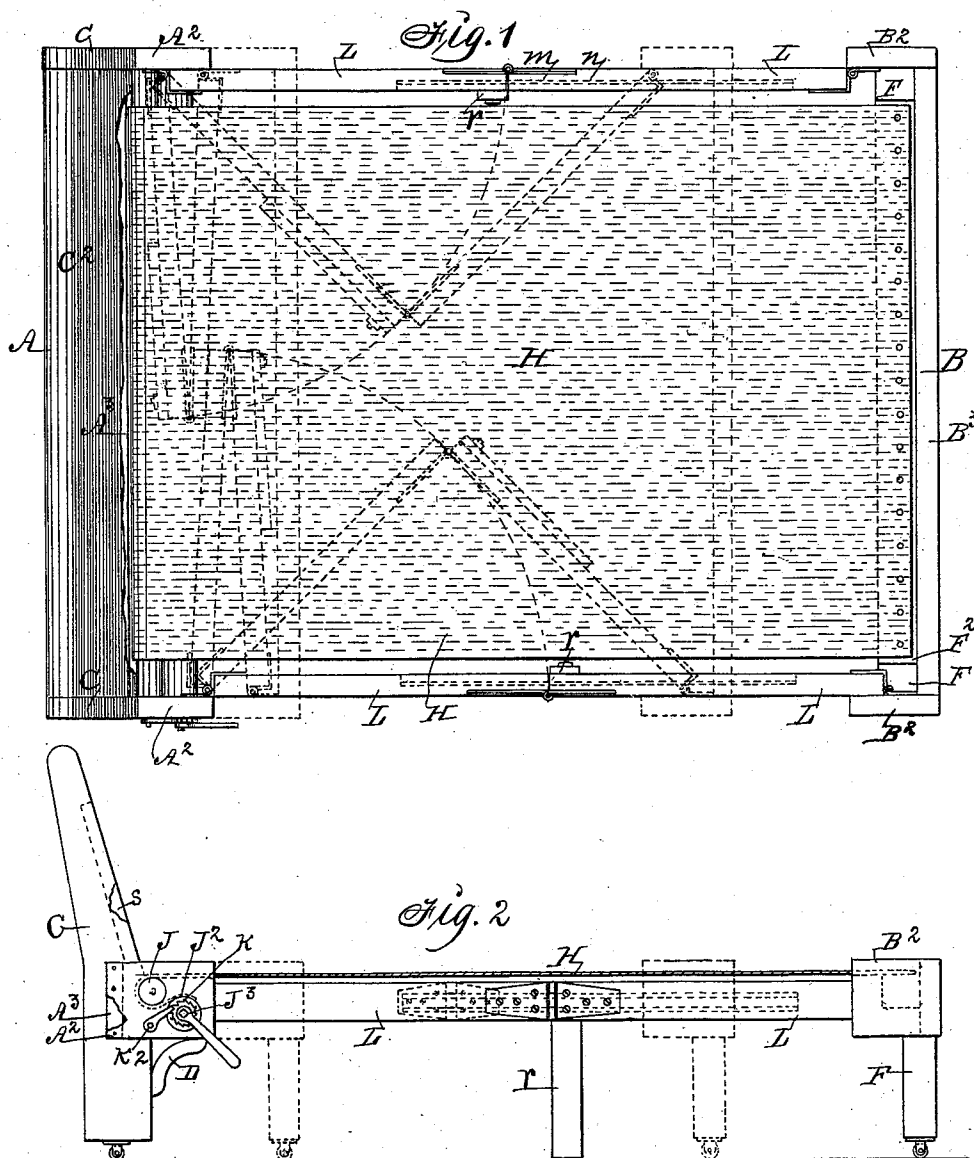


2 Sheets—Sheet 1.

No. 522,569.

Patented July 3, 1894.



Witnesses:
J. Ralph Druwig
R. H. Brink }

Inventor: Samuel C. Wherry,
By Thomas G. Orwig, Atty.

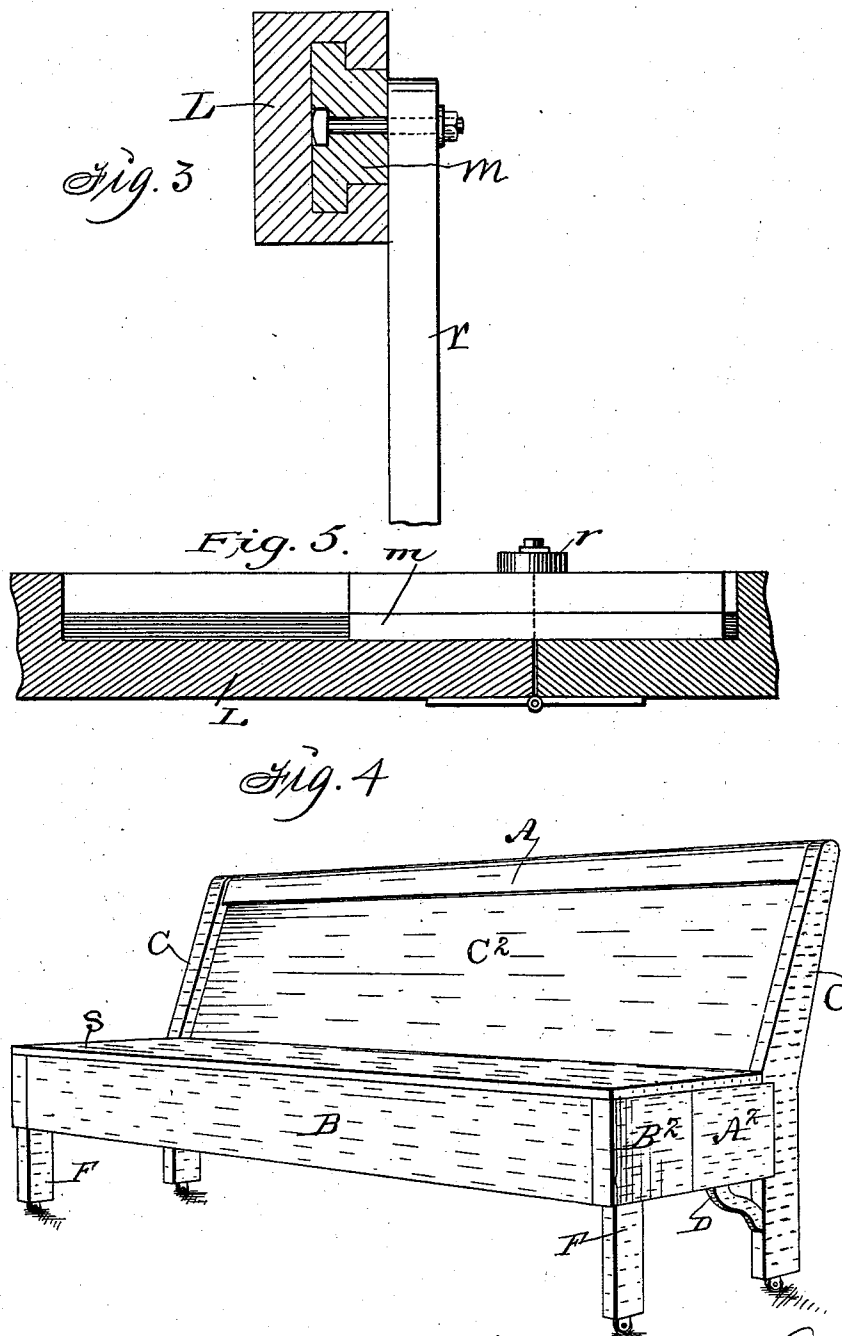
(No Model.)

2 Sheets—Sheet 2.

S. C. WHERRY.
PORTABLE FOLDING BED.

No. 522,569.

Patented July 3, 1894.



Witnesses: } Inventor: Samuel C. Wherry,
R. H. Orwig }
J. Ralph Orwig } By Thomas G. Orwig, Attorney.

UNITED STATES PATENT OFFICE.

SAMUEL C. WHERRY, OF DES MOINES, IOWA.

PORTABLE FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 522,569, dated July 3, 1894.

Application filed November 18, 1893. Serial No. 491,372. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL C. WHERRY, a citizen of the United States of America, residing at Des Moines, in the county of Polk and State of Iowa, have invented a new and useful Folding Bed, of which the following is a specification.

My object is to provide a simple, strong, and durable bed adapted to be readily folded compactly and transformed into a bench or lounge and I accomplish the results contemplated by the invention hereinafter set forth, pointed out in my claims and illustrated in the accompanying drawings, in which—

Figure 1 is a top view and Fig. 2 a longitudinal sectional view showing the construction and relative position of the operative parts. Fig. 3 is an enlarged detail view of an adjustable leg and brace combined with a jointed side of the bed and also fixed at its other end to a roller mounted in the head portion of the bed. Fig. 4 is a perspective view showing the bed folded or transformed into a bench. Fig. 5 is a sectional view of a jointed side having an adjustable sliding brace and leg combined therewith.

A represents the head end of the bed composed of two mating short side pieces A^2 that are rigidly connected by a cross piece A^3 .

B represents the foot end of the bed composed of short mating side pieces B^2 that are rigidly connected by a cross piece and foot board B^3 , and provided with legs to adapt the complete foot end B to be united with the head end A to produce a bench or lounge.

C, C are corner posts fixed to the ends of the short side pieces A^2 , and C^2 is a head board fixed to the posts C.

D, D, are brackets fixed to the posts C and the side pieces A^2 to aid in supporting the head end portion of the bed.

F, F, are posts or legs fixed to the side pieces B^2 to support the foot end of the bed. They are provided with casters to facilitate the movements of the complete foot end B relative to the head end A.

F^2 is a cross piece fixed to the side pieces B^2 to support a flexible bed bottom H fixed thereto.

J is a roller in bearings formed in or fixed

to the side pieces A^2 , and J^2 is a roller immediately below the roller J in bearings formed in or fixed to the same side pieces A^2 .

J^3 is an angular end of the journal of the roller J^2 adapted to have a wrench applied thereto for operating the roller as required to regulate the tension of the flexible bed bottom H that is extended over the roller J and fastened to the roller J^2 . It is obvious one of these rollers can be dispensed with to reduce the cost of construction when desired.

K is a ratchet on the end of the roller J^2 and K^2 is a pawl pivoted to the post C, or the side piece A^2 , in such a manner that it will engage the ratchet and lock the roller as required to retain it stationary when the flexible bed bottom is stretched for supporting a person thereon.

The head portion A and foot end portion B are connected, by means of jointed sides L that are hinged at their ends to the short side pieces A^2 and B^2 in such a manner that they will bend inward at their centers and fold into parallel position with each other and the foot board B^3 and the head board A^3 when the foot end portion B is brought into position relative to the head end portion as required to produce a bench or lounge, as shown in Fig. 4. The sides L are composed of two parts of equal length hinged together at their centers so that they will bend inward only. Their ends are hinged to the short side pieces A^2 and B^2 , as shown in Fig. 1, in such a manner that their jointed centers will be in different vertical planes as required to allow them to be folded into parallel position with each other and the foot and head boards at the same time united to produce a bench or lounge. Each jointed side L has a longitudinal groove or bearing m in its inside and central portion into which is fitted a straight sliding brace n , in such a manner that when the brace is in the center it will stiffen the joint and prevent the side L from bending. To each brace m is pivoted a foot r , in such a manner that when the brace is in proper position for stiffening the jointed side L the foot will depend and rest upon the floor to support the side L and to facilitate the folding and unfolding of the bed and also to prevent tor-

sional strain upon the hinges when the jointed sides are subjected to the weight of a person seated thereon.

S is a flat seat hinged to the bottom of the head board C in such a manner that it can be turned upward against the head board, when not in use, to cover the rollers and to serve as a seat; or it may be detachably connected so it can be removed when the head portion A and the foot portion B are separated; or it may be hinged to the foot board B³.

Canvas, woven wire, or any suitable material that can be rolled upon the roller J², can be used for making the flexible bottom H.

It is obvious a bed of any size desired can be thus constructed and the back of the head board and the seat upholstered or finished in any style desired.

To regulate the tension of the flexible bed bottom and stretch it to support a person thereon when the sides L are unfolded and stiffened by means of the sliding braces *m*, I attach a wrench to the angular end J³ of the roller J² and turn the roller as far as necessary and then allow the pawl K² to engage the ratchet K as required to lock the roller.

To fold the bed I slide the braces *m* off the joints in sides L and then bend the sides inward and wind the flexible bottom H upon the roller J² by drawing it over the roller J. This action draws the foot end portion B toward the head end portion A and folds the sides L into parallel position with each other and compactly within the space that is covered by means of the seat S, as required to

produce a bench or lounge when the bed is folded.

I claim as my invention—

1. In a folding bed, a jointed side piece having a bearing on its inside and a bar or brace sliding therein, and a foot carried by the said sliding brace, arranged and combined to operate in the manner set forth for the purposes stated.

2. The combination of the sliding brace *n* carrying a foot *r* pivoted to said brace, with the side piece L having a joint at its central portion and a bearing *m* to support the sliding brace in the manner set forth, for the purposes stated.

3. A transformable bed comprising a head end portion composed of two short side pieces A², two posts C and a head board C² rigidly connected, a foot end portion composed of two short side pieces, B², a foot board B³ and two feet F, two jointed sides L hinged to the short side pieces A² and B² and provided with bearings *m*, sliding braces *n*, carrying pivoted feet *r*, a roller journaled to the side pieces A², a ratchet K on the end of the roller, a pawl K² to engage said ratchet, a flexible bed bottom H fixed to the roller and to a cross piece at the foot end portion of the bed, and a seat S, all arranged and combined to operate in the manner set forth, for the purposes stated.

SAMUEL C. WHERRY.

Witnesses:

E. B. SKINNER,

THOMAS G. ORWIG.