No. 729,895. PATENTED JUNE 2, 1903.

D. R. ROCHE.

METAL FOLDING BED.

APPLICATION FILED JULY 26, 1902.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

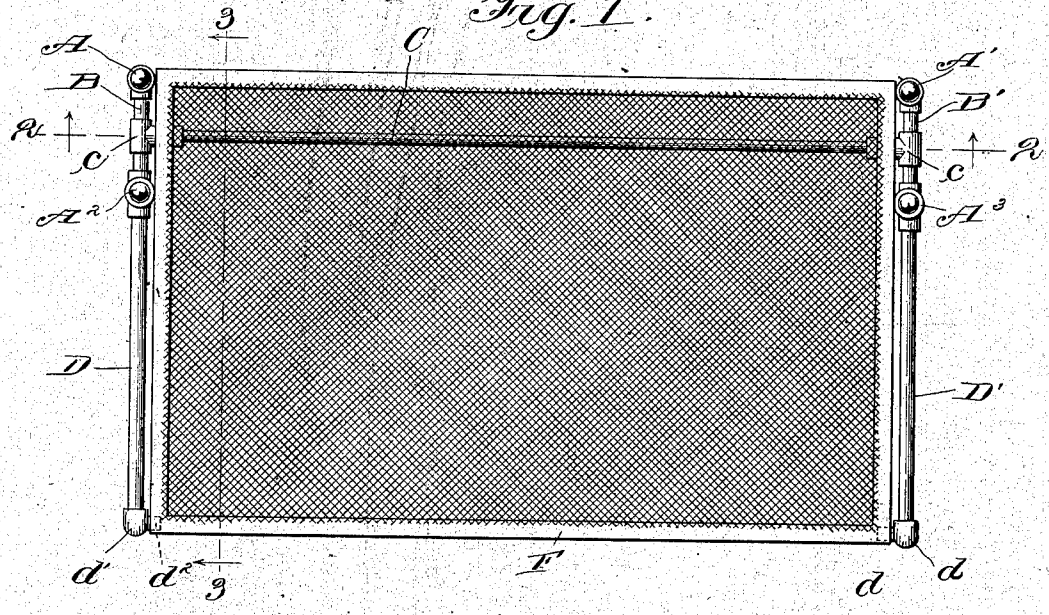
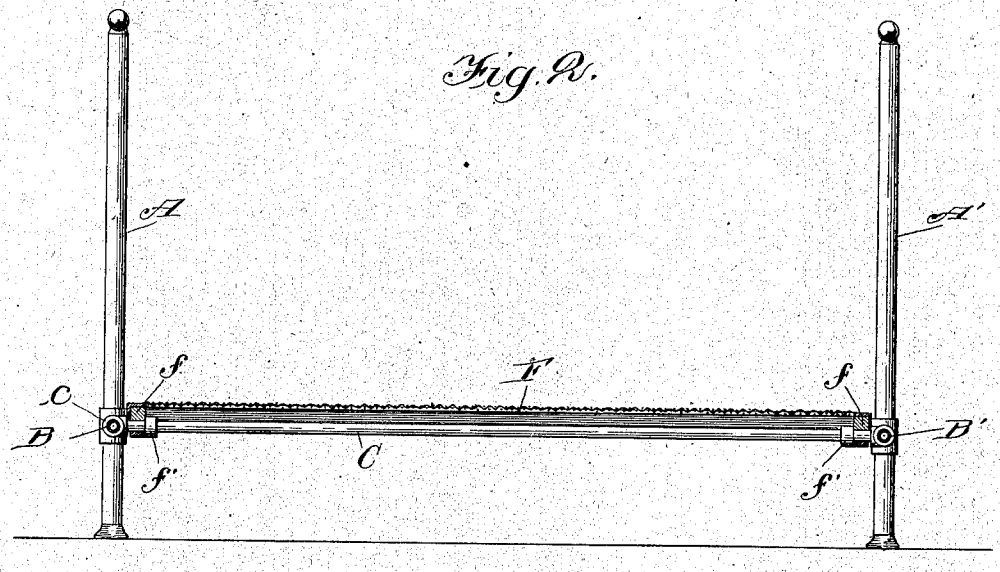


Fig. 2.



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NO MODEL. 2 SHEETS—SHEET 2.

Fig. 3.

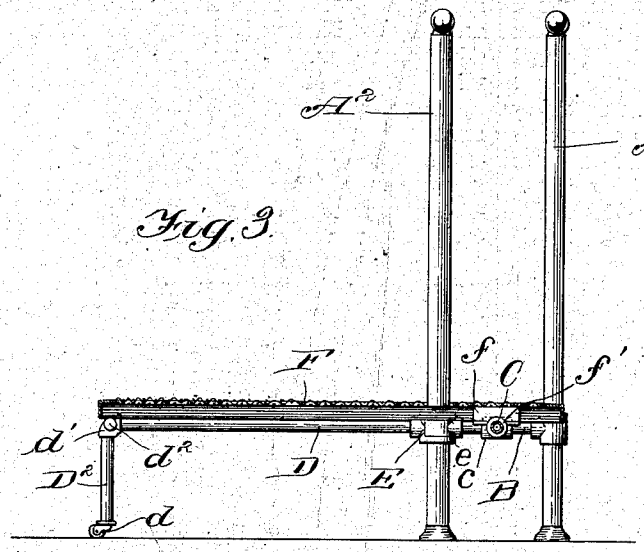


Fig. 6.

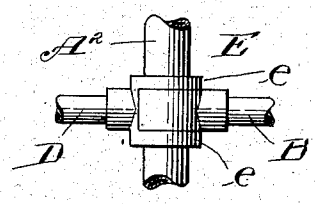


Fig. 4.

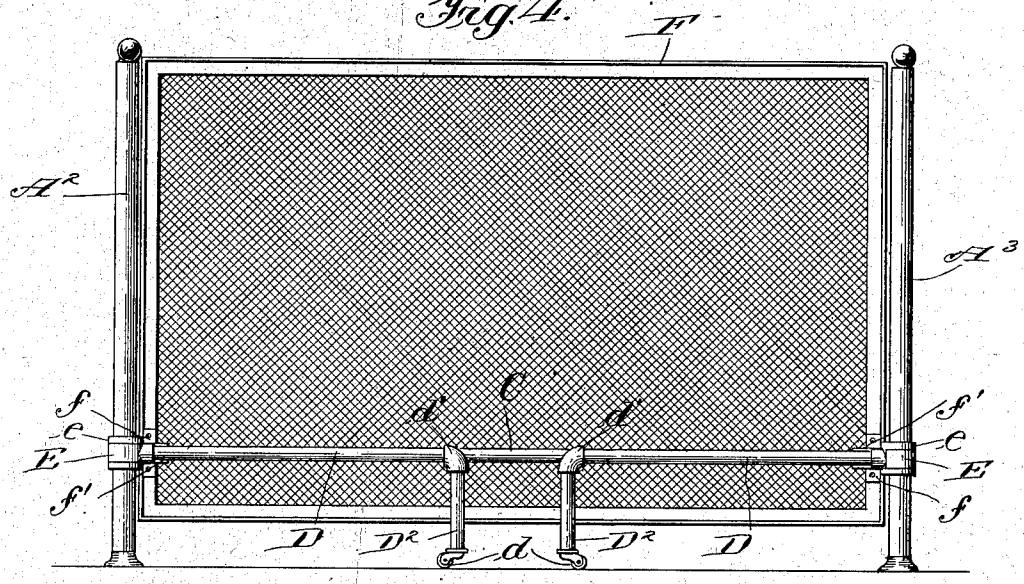
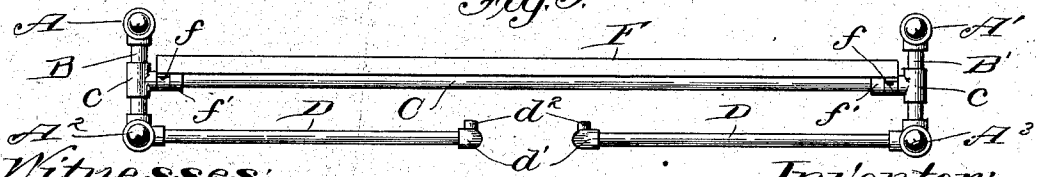


Fig. 5.



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No. 729,895. Patented June 2, 1903.

UNITED STATES PATENT OFFICE.

DAVID R. ROCHE, OF CHICAGO, ILLINOIS.

METAL FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 729,895, dated June 2, 1903.

Application filed July 26, 1902. Serial No. 117,061. (No model.)

To all whom it may concern:

Be it known that I, DAVID R. ROCHE, a citizen of the United States, residing at Chicago, county of Cook, State of Illinois, have invented a certain new and useful Improvement in Metal Folding Beds; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention has for its object the production of a metal folding bed which shall combine the elements of strength, durability, cheapness in manufacture, and ability to be folded into a small compass when not in use.

It consists in the combination of devices and appliances hereinafter described and claimed.

Figure 1 is a plan view of my bed in its open or extended position; Fig. 2, a sectional view on line 2 2, Fig. 1; Fig. 3, a sectional view on line 3 3, Fig. 1; Fig. 4, a side elevation of the bed folded; Fig. 5, a plan view in the latter position, and Fig. 6 a detail of one of the connections.

In carrying out the invention A A′ A^2 A^3 represent upright posts or standards. They are connected together at a given height from the floor—say twelve inches, more or less—by cross-arms B B′. Engaged to these cross-arms by suitable fittings, such as T's *c*, is a connection C. Engaged to the upright posts A^2 A^3 by suitable hinge-joints, hereinafter specifically described, are arms D D′, provided on their outer ends with downwardly-projecting legs D^2, and these legs may or may not be provided with casters *d*, as desired. The hinge just referred to is a fitting E, bifurcated, as at *e*, as shown in Fig. 6, each of the bifurcated arms being provided with an orifice to embrace the posts A^2 and A^3. F is the spring or mattress, preferably formed with an angle-iron frame, as shown in Fig. 2, and pivoted to the rod C by blocks *f*, embracing the rod C, suitable collars *f′* being provided to prevent play of the mattress along the rod C. On the fitting *d′* on the end of each arm D D′ is a lug or projection d^2, adapted to receive and support the outer corners of the mattress.

The operation of the structure will now be understood. The mattress is supported at its inner corners on the rod C and is pivoted thereto. When it is in a horizontal position—that is, when it is down—the outer corners are supported from the outer ends of the arms D D′. When it is swung up out of position, as shown in Figs. 4 and 5, it turns on the rod C, and the arms D D′ can then be swung in the position shown in Fig. 5, thus making a compact folding structure. It is only necessary when the bed is to be put into use to swing out the arms D D′ and lower the mattress. By pivoting the mattress or spring at a point somewhat in from the edge, as shown, the upper edge of the mattress when it is folded up will come substantially to the top of the posts, or a little below them, so that the structure is rendered more snug when folded.

Preferably I make the upright posts A A′ A^2 A^3, the cross-pieces B B′, the connecting-rod C, and the arms D D′ of gas-pipe, and the connecting-fittings are of the usual form used in connecting structures of this character; but I do not care to limit myself to the use of gas-pipe or to the use of the form of fittings shown.

What I claim is—

1. In a metal folding bed, the combination with two pairs of upright posts, a pipe connection uniting the individual posts of each pair, a T-coupling included in each of said pipe connections at a point intermediate of its ends, a pipe extending between said pairs of posts having its ends inserted in and supported by said T-couplings, a vertically-swinging bed-bottom extending across and supported near one side by said rod, straps secured to said bed-bottom surrounding said rod and thereby pivotally mounting said bed-bottom on said rod, and means for supporting the other side of said bed-bottom when in its lower position.

2. In a metal folding bed, the combination with two pairs of upright posts, a connection including a T-coupling uniting the individual posts of each pair, a pipe extending between said pairs of posts having its ends inserted in said T-couplings, collars located on said pipe near the ends thereof and spaced short distances from the T-couplings, a bed-bottom extending above and supported near one side by said pipe, straps secured to said bed-

bottom surrounding said pipe and lying between said collars and said T-couplings and thereby pivotally mounting said bed-bottom on said pipe, and means for supporting the other side of said bed-bottom when in its lowered position.

3. In a metal folding bed, the combination with two pairs of upright posts, of connections uniting the posts of each pair comprising fittings surrounding the posts, a pipe extending between said pairs of posts and supported thereby, a bed-bottom extending above and supported near one side by said pipe, horizontally-swinging arms having depending legs at their outer ends and pivotally secured at their inner ends to corresponding posts in said pairs, bifurcated fittings rigidly secured to the inner ends of said arms and surrounding the posts with the bifurcated portions located above and below the fittings forming parts of the connections between the pairs of posts, horizontally-projecting lugs secured to said arms near their outer ends adapted to support one side of the bed-bottom when the latter is in its lowered position.

In testimony whereof I sign this specification in the presence of two witnesses.

D. R. ROCHE.

Witnesses:
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