

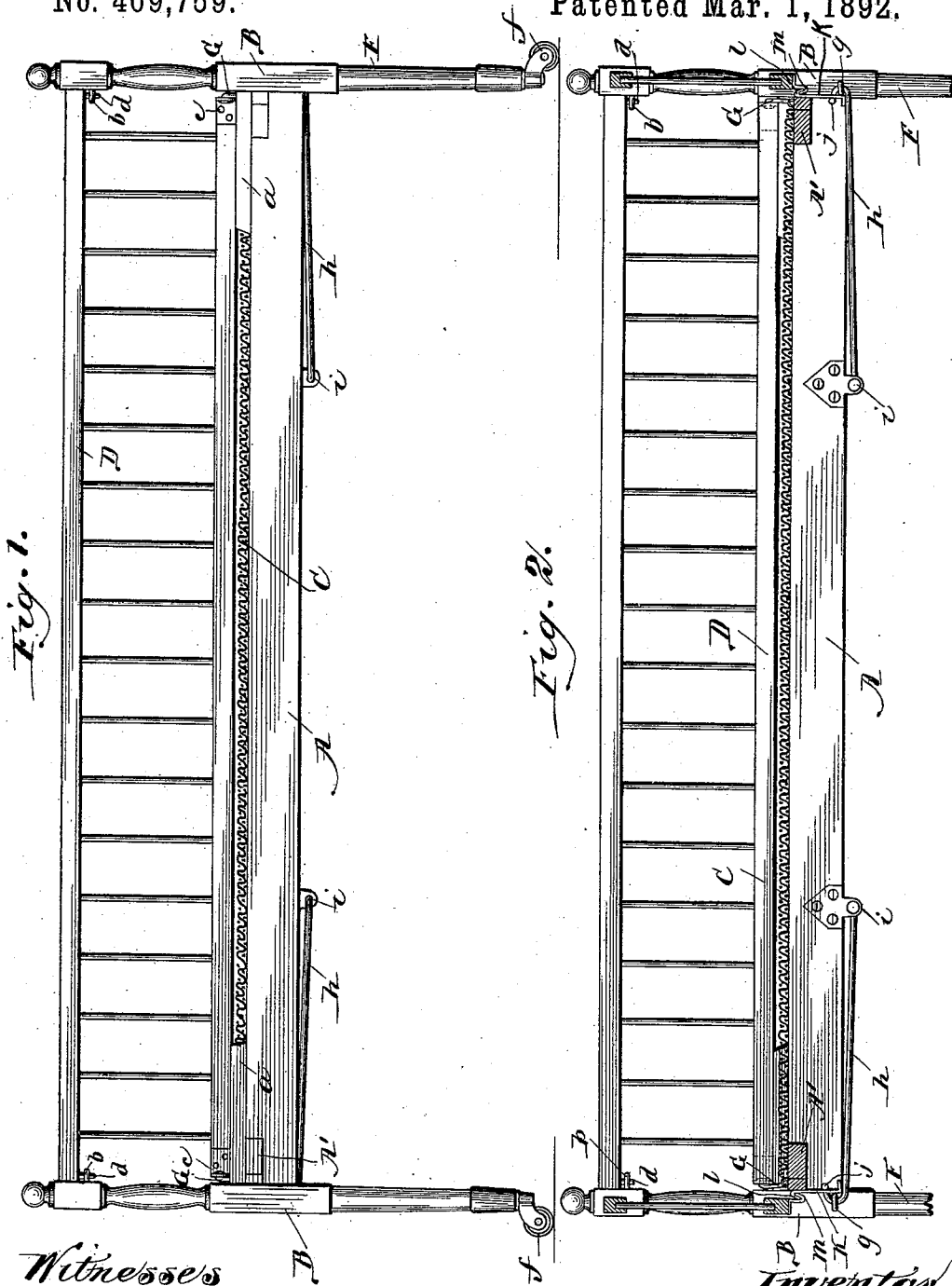
(No Model.)

2 Sheets—Sheet 1.

C. M. WAGNER.
FOLDING COT.

No. 469,759.

Patented Mar. 1, 1892.



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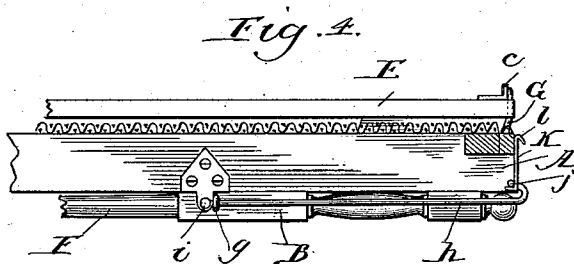
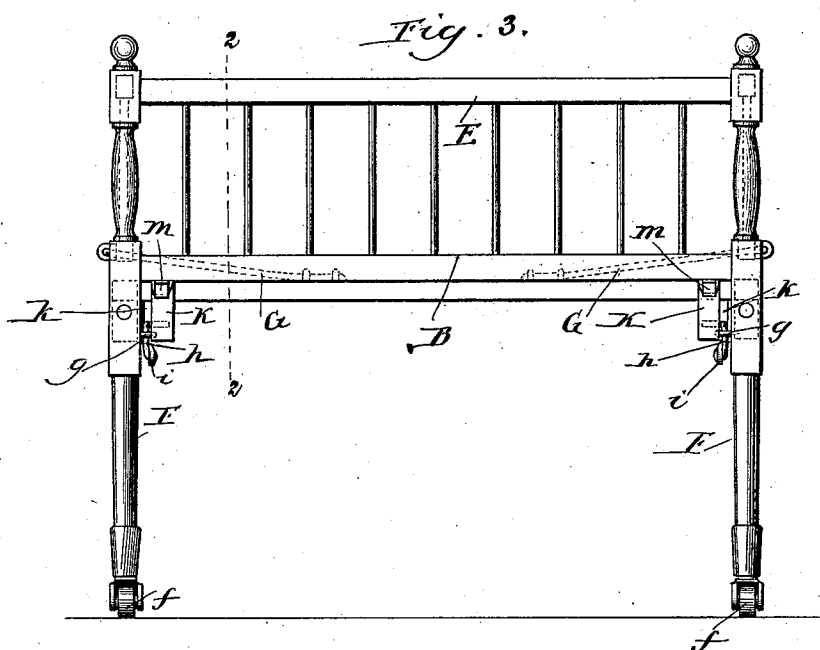
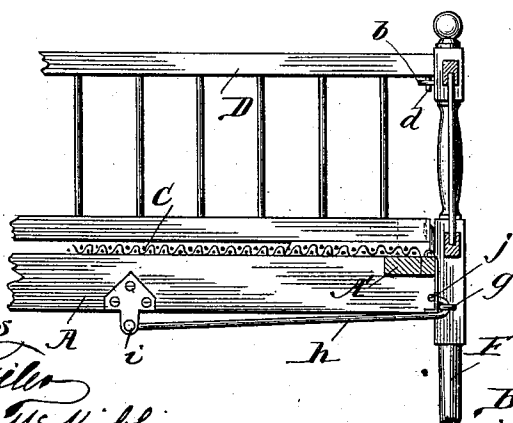


Fig. 5.



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UNITED STATES PATENT OFFICE.

CASPAR M. WAGNER, OF CHICAGO, ILLINOIS.

FOLDING COT.

SPECIFICATION forming part of Letters Patent No. 469,759, dated March 1, 1892.

Application filed May 25, 1891. Serial No. 393,952. (No model.)

To all whom it may concern:

Be it known that I, CASPAR M. WAGNER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Folding Cots, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation. Fig. 2 is a longitudinal vertical section on line 2 2 of Fig. 3. Fig. 3 is an end elevation. Fig. 4 is a detail, being a sectional view of one end of one of the side pieces of the cot, showing the cot folded; and Fig. 5 is a detail, being a partial vertical section of one end of the cot, showing a modification.

My invention relates to folding cots, and more particularly to that class of folding cots in which the end pieces with the legs of the cot are adapted to be folded under and to slide horizontally under the cot, so as to leave the upper surface of the cot free and to avoid the necessity of removing the bedclothes when it is desired to fold the cot. The objects of cots of this character are shown in my former patents, Nos. 440,732 and 440,733, dated November 18, 1890.

The objects of my present invention are to provide improved guides upon which the end pieces may move when turned under the cot, to provide an improved method of securing the side rails upon the bed-frame, and to otherwise improve the construction of cots of this character. I accomplish these objects as illustrated in the drawings and as hereinafter specified.

That which I regard as new will be pointed out in the claims.

In the drawings, the cot-frame consists of the usual side pieces A, held together by cross-pieces A' and end pieces B. A woven-wire mattress or any other suitable material is secured upon the frame of the cot for supporting the bedclothes. The mattress C is preferably secured to the side pieces A at or near the top of said side pieces, as best shown in Figs. 1 and 2.

a a indicate narrow strips, which are secured upon the upper part of the side pieces A at the ends, adapted to support the opposite ends of the side rails D, as best shown in Figs. 1 and 2.

The end pieces B at their upper portions form the end rails E of the cot and extend downward at each side to form the legs F, upon which the cot is supported. Casters f may be mounted upon the legs F in any suitable manner. Each end piece is provided at its upper portion near the end with a staple or ring b, adapted to receive a pin d in the upper portion of the ends of the side rails D, as best shown in Figs. 1 and 2. By this construction when the rails D are raised to a perpendicular position they may be held in such position by the insertion of the pins d into the rings b. If desired, the pins may be inserted in the end pieces and the rings in the side rails, the operation in both cases being practically the same. This construction is shown in one of my said former patents.

The side rails are provided at the lower portion of their ends with brackets c, which are secured to the side rails, and are provided with a portion bent at right angles to the line of the side rails, said portion being adapted to receive one end of a wire spring G, which is adapted to turn in said bracket and which is secured at its opposite end to the end of the bed-frame, as best shown by dotted lines in Fig. 3. The tension of the spring is such that it will tend to hold the side rail down in contact with the side of the bed-frame, so that when the cot is set up the tension of the springs G will tend to hold the pins d in the rings b. I do not wish to limit myself to the construction shown of the brackets c or to the springs G to the bed-frame or to the side rails, as this may be accomplished in many ways. By this construction when it is desired to lower the side rails or to close the cot the side rails D may be raised so that the pins d will be free from the rings b and be folded over upon the bedclothes, the springs G permitting the bottom of the rails D to be raised from the upper edge of the side pieces of the bed. The side rails may thereby be folded over upon the bed without necessitating the removal of the bedclothes, which forms a very valuable feature of my present invention.

The end pieces B, as hereinbefore stated, are adapted to be turned under the bed-frame and to be moved back under said frame, substantially as described in my former patents.

Secured upon the inner portion of each leg F, near the lower portion of the side pieces A, is a ring *g*, which is adapted to move upon a guide-arm *h*, which preferably consists of a round iron rod. The guide-arms *h* are each flexibly connected at the inner end to the inner side of a side piece A near the end thereof in such manner that the guide-arms can swing or move in the arc of a circle in a vertical plane. The flexible connections, as here shown, are composed of hinges *i*, and the opposite end of each guide-arm *h* is bent upward, and at its end is bent into a horizontal position at right angles to the main portion of the rod *h*, as best shown at *j* in Fig. 2. The curved portion of the rod *h* passes through a perpendicular slot *k* in a guide-plate K, one of which is secured near each end of each end piece B, as best shown in Fig. 3. The object of the portion *j* upon the guide-arm *h* is to prevent the latter from slipping out of the slot *k*. If desired, this object may be accomplished by enlarging the end of the guide-arm *h*, which projects through the slot *k*, or in many other ways.

The rings *g*, by means of which the end pieces B are mounted upon the swinging guide-arms *h*, are placed upon such arms between the points *i*, where the arms *h* are hinged, and the points where they pass through the slots *k*, as best shown in Fig. 2. The arms *h* are of such length that when the cot is set up they will bring the inner surfaces of the end pieces B in contact with the ends of the side pieces A. By this construction when the cot is set up the arms *h* will be slightly inclined in an upward direction from the points *i*. The points *j* will then be in the upper portion of the slots *k* and the end pieces B will be held tightly against the ends of the side pieces A, as best shown in Figs. 2, 3, and 5.

When it is desired to fold the cot by pressing downward on the end pieces B or raising the side pieces A, the portions *j* on the arms *h* will move downward in the slot until the ring *g* reaches a point lower than the side pieces A, when the end pieces B may be turned under the cot, and as the arms *h* will then be practically in a horizontal position below the side pieces A the end pieces B may be moved along the arms *h* until they are entirely beneath the cot-frame, as shown in Fig. 4. The portions *j* on the arms *h* will then be at the bottom of the plates K.

By means of the movable guides *h*, pivotally engaged with the side pieces A, I render the construction more simple and desirable by providing smooth and easy action of the parts in folding the end pieces beneath the cot. I also render the construction more economical by avoiding upwardly-extending slots in the guides, as in my patents hereinbefore mentioned.

In order to more firmly lock the end pieces B in position when the cot is set up, each

end plate K is bent over at the top to form a hook *l*, which is adapted to receive a corresponding hook *m*, secured upon the end piece B in suitable position, as best shown in Fig. 2. When the cot is set up, the hooks *l* and *m* will fit into each other and hold the parts more firmly in position. If desired, the hooks *l* and *m* may be omitted, as shown in Fig. 5; but I prefer to use them, as the cot is thereby more firmly locked in its upright position.

That which I claim as new, and desire to secure by Letters Patent, is—

1. A cot consisting of a cot-frame having swinging and rising and falling side rails which fold down upon the upper side of the cot-frame, and springs which connect the lower portions of the side rails with the cot-frame and permit the side rails to be bodily raised for folding them upon the cot-frame, substantially as and for the purposes described.

2. The combination, in a cot, of rails D, adapted to rest upon the side pieces of the cot frame, and springs G, secured at one end to the ends of said rails and at the other end to the end pieces of the cot-frame, the tension of the springs being such that they will cause a downward pressure upon the side rails, substantially as and for the purpose specified.

3. The combination, with a cot-frame, of guide-arms *h*, flexibly connected at one end to the side pieces of the cot-frame to rise and fall in the arc of a circle in a vertical plane, guide-plates with which the opposite ends of the guide-arms loosely engage, and end pieces engaging the guide-arms and adapted to slide horizontally under the cot upon said guide-arms, substantially as and for the purposes described.

4. The combination, in a folding cot, of side pieces having guides *h* hinged to the side pieces near their ends, the outer end of each guide being adapted to move in a slotted plate, with end pieces adapted to be moved upon said guides horizontally under the cot-frame, substantially as and for the purpose specified.

5. The combination, with a cot-frame having side pieces and end pieces provided with hooks *m*, of guide-arms *h*, flexibly connected at one end to the cot-frame to rise and fall in the arc of a circle in a vertical plane, the slotted guide-plates K, secured to the side pieces of the cot-frame, engaging the guide-arms and provided with hooks *l* for receiving the hooks on the end pieces of the cot-frame, and end pieces engaging the guide-arms and adapted to slide horizontally under the cot-frame, substantially as and for the purposes described.

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