

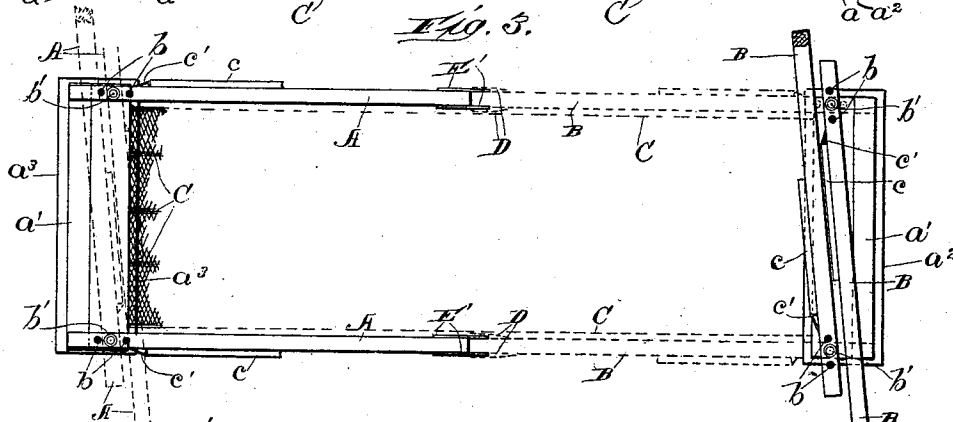
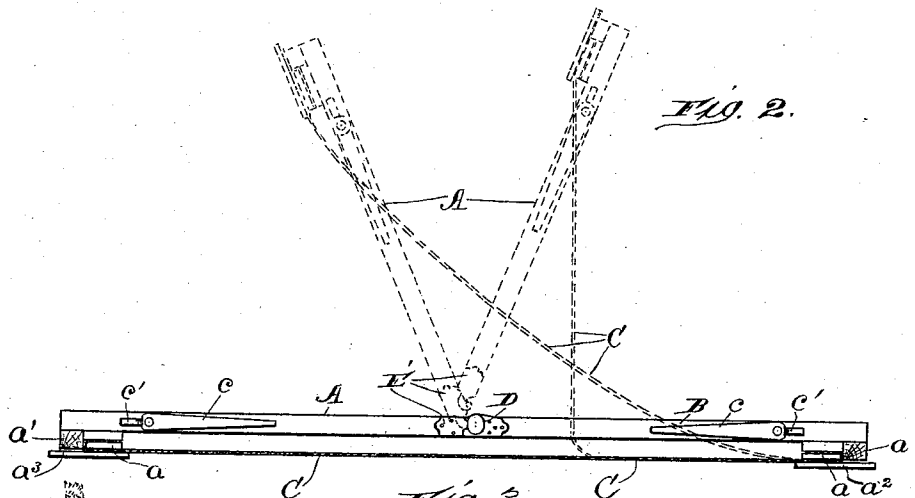
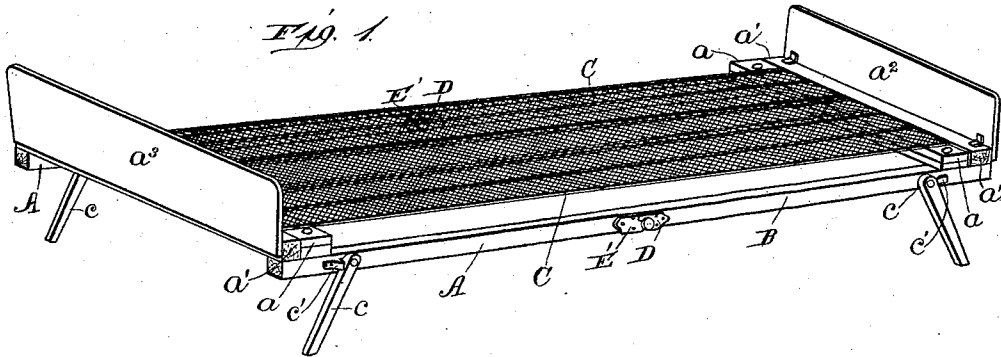
(No Model.)

2 Sheets—Sheet 1.

D. A. PAGE & G. Z. CRUZEN.
FOLDING COT OR BED BOTTOM.

No. 537,305.

Patented Apr. 9, 1895.



Witnesses:
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UNITED STATES PATENT OFFICE.

DUSTAN A. PAGE AND GEORGE Z. CRUZEN, OF CHICAGO, ILLINOIS; SAID CRUZEN ASSIGNOR, BY MESNE ASSIGNMENTS, TO CHARLES W. FAIRINGTON, OF SAME PLACE.

FOLDING COT OR BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 537,305, dated April 9, 1895.

Application filed March 21, 1894. Serial No. 504,508. (No model.)

To all whom it may concern:

Be it known that we, DUSTAN A. PAGE and GEORGE Z. CRUZEN, citizens 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 or Collapsible Cots or Bed-Bottoms, of which the following is a specification.

This invention relates to improvements in cots or bed-bottoms; and consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The objects of our invention are, first, to provide a cot or bed-bottom, which shall be simple and inexpensive in construction, yet effective in operation and satisfactory in service; second, such a cot or bed-bottom, in which the parts thereof are so constructed that it will be especially adapted to bottoms made of woven wire, cords, or other suitable, flexible material, which flexible bottom may be stretched taut, and held in such a position under very great weight; and third, a cot or bed-bottom the parts of which may be readily united or disconnected, and may be folded together into a compact form or package occupying a minimum amount of space, thus economizing in the cost of shipping or storage.

In order to enable others skilled in the art to which our invention pertains to make and use the same, we will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1, is a perspective view of our cot, showing it in position ready for the bed-clothes and to be occupied. Fig. 2, is a view in side elevation of the cot inverted, showing in continuous lines, the legs, head and foot-board thereof folded down, and by dotted lines, the position the parts will occupy when the frame is being connected or disconnected, preparatory to being folded together. Fig. 3, is a bottom plan view of the cot showing a portion of the frame folded together, in order that it may be formed into a small package, and a part only of the flexible bottom or woven-wire. Fig. 4, is an end view of the cot or bed-bottom in a collapsed condition, showing it formed or

rolled into a small package. Fig. 5, is a perspective view of a portion of one part of one of the side-rails of the frame, showing its socket or joint plates secured thereto. Fig. 6, is a like view of the other part of said rail, showing its joint plates secured thereto. Fig. 7, is a view in side elevation of one of the joint plates used on one part of the side-rails. Fig. 8, is a similar view of the socket or joint-plates used on the other part of the side-rail, and showing by dotted lines, the two plates in engagement. Fig. 9, is a sectional view, taken on line 9, 9, of Fig. 8, of one of the socket-plates; and Fig. 10, is a perspective view of a portion of the frame, and a part of the flexible-bottom, showing the manner of securing the same thereto.

Similar letters refer to like parts throughout the different views of the drawings.

The side-rails of the frame or bed-bottom are made of two pieces or sections A, and B, which are preferably made of wood, and usually rectangular in shape, to the outer surface and near the outer ends of which are pivotally secured the braces or end-pieces *a*, which serve the double purpose of uniting the side-rails of the frame and of securing the flexible bottom or wire-fabric C, at its ends.

As is clearly shown in Figs. 1, 2, and 10, of the drawings, the braces *a*, are formed of two pieces placed one on the other, and are firmly secured together by means of bolts or rivets or otherwise, thus clamping the flexible-bottom or fabric C, between them and affording a very secure and inexpensive means of retaining the same in position. To the outer edge of each of the braces *a*, is secured a piece *a'* to which the head-board *a²*, and foot-board *a³*, are hinged. The pieces *a'* are bolted or otherwise firmly secured to the braces *a*, and assist in retaining the flexible bottom C, in position. To the inner ends of the pieces B, and on each side thereof, is secured a plate D, having a cam-shaped groove or socket D', within which fits and operates the cam-projection E, on the plates E', which are secured to the inner ends of the pieces A, and on each side thereof, as is clearly shown in Figs. 3, and 6, of the drawings. The upper part of the plate D, adjacent to the plate E', is formed

with a rectangular shoulder d , against which fits a similarly formed shoulder e , on the upper portion of the plate E' , when the said plates are in engagement. As shown the cam-socket or groove D' , is provided with a somewhat flaring mouth d' , in order to allow of the easy insertion or removal of the cam-projection E , and is provided with a covering d^2 , which prevents the lateral dislocation of the cam-projection, as is obvious. To the outer surfaces of the side-rails of the cot, are pivotally secured near each end thereof, supporting legs c , which may be folded to the sides of the side-pieces, as shown in Fig. 2, and are prevented from accidental closing, by means of the springs or stops c' attached to the side-rails near the supporting-legs. By placing the pieces composing the braces a , one on the other, we attain greater strength thereby, and it is obvious that as the ends of the woven-wire or flexible-bottom are placed between said pieces, that it is not necessary to have the fabric or bottom "squared," as is ordinarily the case. The flexible-bottom C , is then placed over the upper piece of the brace, in which position it will be firmly held, by reason of the contact with the upper and lower edges of the said upper piece.

As shown in Fig. 3, of the drawings, the pieces A , and B , forming the side-rails of the bottom are provided with a number of holes b , through which may be passed the pivot-pin b' , to secure them to the brace-pieces a . We provide the pieces with a number of holes, so that if after long use, the flexible bottom should be stretched, so as to sag, it can again be made taut by placing the pivot-pin in the outer holes in the side-pieces, which will thereby lengthen the distance between the braces or end-pieces.

The operation of our device, is simple and as follows: The pieces B , are placed parallel with each other, and in an inverted position, as shown in Fig. 2, of the drawings, when the pieces A , having on their inner ends the cam-projections E , may be united with the pieces B , by inserting the projections in the sockets D' , of the plates D , as shown by dotted lines in the last named figure, when by pressing the pieces A , down, the cam shapes of the groove D' , and projections E , will act as a lever and will cause the flexible bottom to be

stretched taut, when the pieces A , are brought into alignment with the pieces B , after which the bottom may be turned over to occupy the position shown in Fig. 1, when they will be firmly locked and will resist great weight. When it is desired to fold the cot or bed-bottom for shipping or storage, the parts may be separated by raising the pieces A , and disengaging them from the pieces B , after which they may be turned to the transverse positions, indicated in Fig. 3, of the drawings, when they may be rolled toward each other and inwrapped by the flexible bottom forming a very small and compact package, which is illustrated in Fig. 4, of the drawings.

From the foregoing it will be seen and readily understood that our invention is applicable to a bed-bottom, as well as a cot, and by simply omitting the supporting-legs and head and foot-boards, may be applied to a bed-stead of the ordinary construction.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a folding-cot or bed-bottom the combination of the end-braces composed of two pieces placed one on the other, with the sectional side-rails pivotally secured thereto, the plates D , having the cam-shaped sockets secured to the inner ends of one pair of the sections of the side-rails, the plates E' , having the cam-shaped projections, and secured to the inner ends of the other pair of sections of the side-rails, and the flexible bottom overlapping the upper pieces of the braces and having its ends interposed between the pieces thereof, substantially as described.

2. In a folding-cot or bed-bottom, the combination with the end-rails a , of the sections A , and B , of the side-rails pivotally secured thereto, the plates D , having the cam-shaped sockets D' , and shoulders d , secured to the sections A , the plates E' , having the cam-shaped projections E , and shoulder e , secured to the sections B , and the flexible bottom C , secured to the end-pieces or braces, substantially as described.

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