

W. DERBYSHIRE.

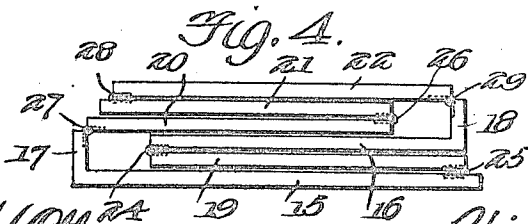
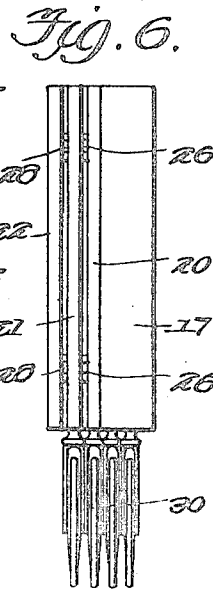
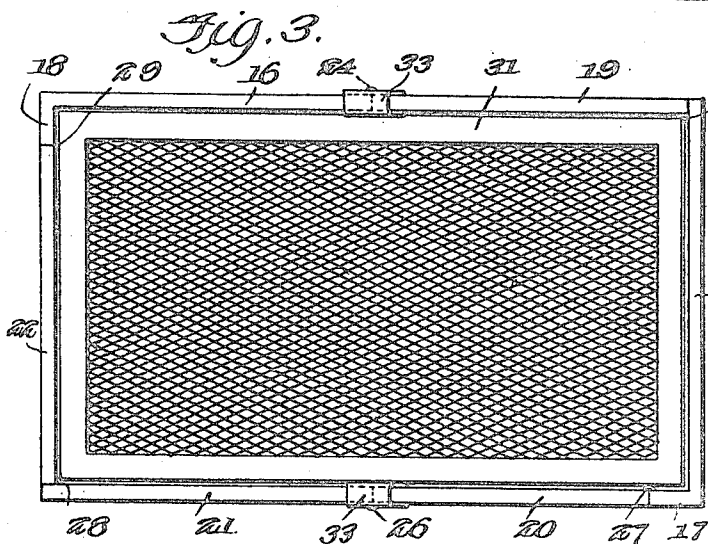
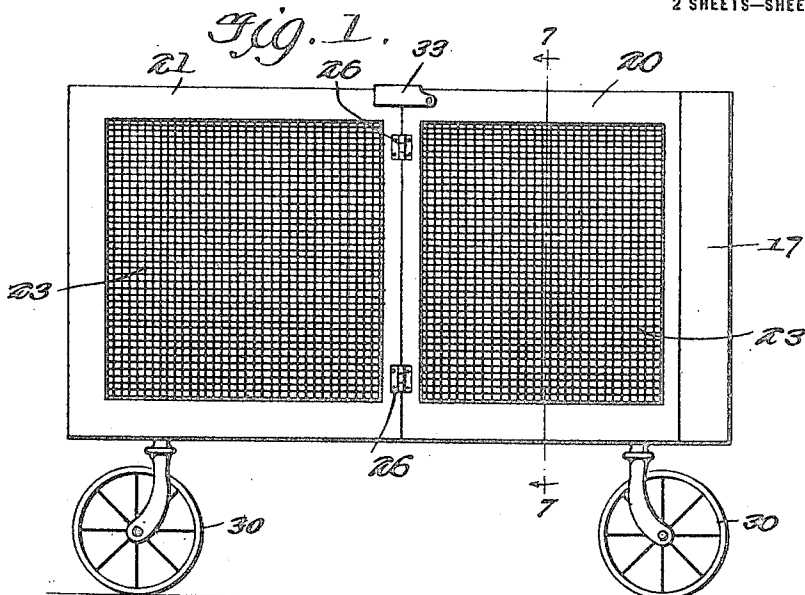
FOLDING CRIB.

APPLICATION FILED SEPT. 20, 1916.

1,248,282.

Patented Nov. 27, 1917.

2 SHEETS—SHEET 1.



Witness

Hugh H. Hall
Wm. Baggett

Inventor

W. Derbyshire

By

Victor J. Evans

Attorney

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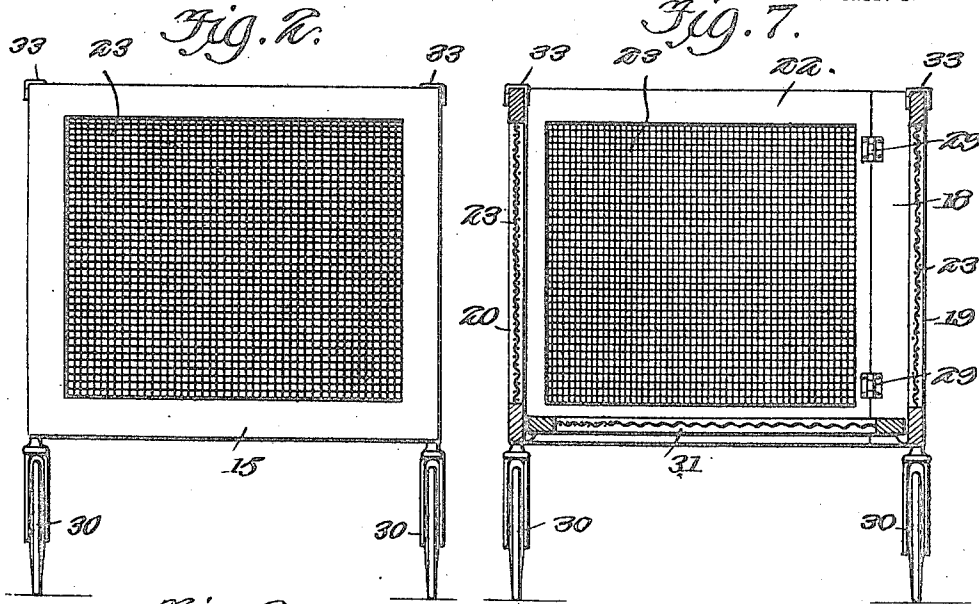
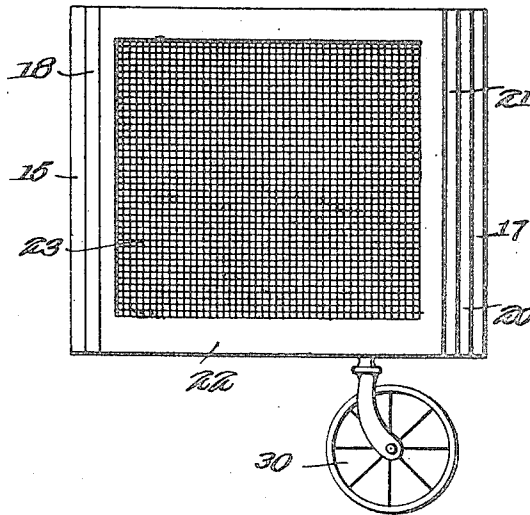
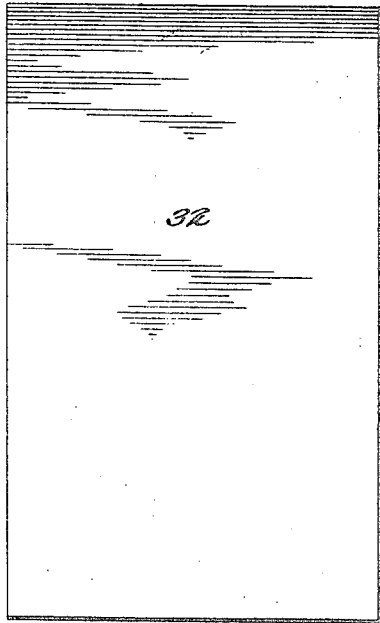


Fig. 8.

Fig. 5.



Witness

Hugh H. Cox
James J. Rogers

Inventor

W. Derbyshire,

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM DERBYSHIRE, OF ROCHESTER, NEW YORK, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO EARL F. CASE, OF ROCHESTER, NEW YORK.

FOLDING CRIB.

1,248,282.

Specification of Letters Patent.

Patented Nov. 27, 1917.

Application filed September 20, 1916. Serial No. 121,223.

To all whom it may concern:

Be it known that I, WILLIAM DERBYSHIRE, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented new and useful Improvements in Folding Cribs, of which the following is a specification.

This invention relates to foldable cribs, play pens and the like for children, and it has for its object to produce a folding structure of improved construction which will be simple, durable and capable of folding in extremely small compass.

A further object of the invention is to produce a foldable device of the character described of oblong rectangular formation so as to preserve the contour and general proportions of a crib and which will be so constructed that it may be folded in small compass.

A further object of the invention is to produce a device of the character described which will be equipped with caster wheels to permit it to be readily moved about when extended, the wheels being so arranged as not to obstruct the collapsing or folding of the device in small compass.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

In the drawings,—

Figure 1 is a view in side elevation showing the improved device extended.

Fig. 2 is an end view.

Fig. 3 is a plan view of the same.

Fig. 4 is a plan view showing the device collapsed.

Fig. 5 is a side view showing the device collapsed.

Fig. 6 is an end view showing the device collapsed.

Fig. 7 is a transverse sectional view taken on the line 7—7 in Fig. 1.

Fig. 8 is a plan view showing a detachable floor which may be used in place of a wire mattress when the device is to be used as a play pen.

Corresponding parts in the several figures are denoted by like characters of reference.

The improved device when extended is of rectangular shape, and it is composed of a plurality of frames, two of which, 15, 16 are each provided with an angle piece of flange 17, 18. The remaining frames which are designated, respectively, by 19, 20, 21 and 22 are each of rectangular form, and each of the several frames has a filling 23 of wire netting.

The frame 15 having the flange 17 is disposed at one end of the structure when extended, and the frame 16 having the flange 18 is disposed at one side of the structure adjacent to the opposite end. Hinges 24 disposed exteriorly on the frames 16 and 19 join said frames together, and the frame 19 is joined with the frame 15 by hinges 25 disposed on the inner faces of said frames. The frames 20 and 21 are joined together by hinges 26 disposed on the outer faces of the frames, and the frame 20 is joined with the flange 17 of the frame 15 by hinges 27 disposed on the inner faces of said frame and flange. The frame 22 which is positioned at the end of the structure opposite to the frame 15 is joined with the frame 21 by hinges 28 disposed on the inner faces of the frames, and said frame 22 is joined with the flange 18 of the frame 16 by hinges 29 which are likewise disposed on the inner faces of the frames.

It will be seen that owing to the construction of the frames 15, 16 with the flanges 17, 18 and to the particular disposition of the remaining frames and the hinges whereby the frames are joined together, the frames 16 and 19 may be folded together on the end frame 15 against the inner face of said end frame, the said frames 16 and 19 being accommodated in the angle formed by the flange 17 with the flange 18 of the frame 16 projecting in an outward direction. The frame 22 will fold at right angles to the flange 18, and the frames 20, 21 will fold together between the frames 16 and 22, as will be clearly seen in Fig. 4 of the drawings. It will be seen that the several frames fold flat together, there being no intervening parts to increase the bulk of the device when

folded. It will also be seen that the device when folded is of an extreme width which is only equal to the width of the structure when extended, the sides of the structure which are considerably longer than the ends being each composed of two frame members that will collapse or fold together, as shown.

The extended structure is provided with caster wheels 30, said caster wheels being arranged at the sides of the device, and said caster wheels being, therefore, connected with the frames 16, 19, 20 and 21. The caster wheels while of ample height, are made quite narrow so that, as best seen in Fig. 6, they will make no addition to the width of the device when folded for storage or transportation.

There is provided a wire mattress including a rectangular frame 31 of suitable construction, the same being adapted to be supported within the device when extended, as best seen in Figs. 3 and 7. When the device is to be used as a play pen a solid floor 32 is substituted for the mattress.

To reinforce the frame members when extended and to guard against accidental collapse, latch members 33 are provided, the same being pivotally connected with the side frame members 19 and 20 and adapted to overhang and overlap the top edges of the side frame members 16 and 21, as best seen in Fig. 1.

From the foregoing description, taken in connection with the drawings hereto annexed, it will be seen that I have produced a collapsible device of simple and improved construction which may be utilized either as a child's crib or as a play pen and which, when not in use, may be folded into extremely small compass for convenience in storing the same.

The ability of this device to be folded in very small compass is due to the peculiar construction whereby one end frame member and one side frame member are each provided with a flange at one end thereof, the flange of the end frame member being hinged to a side frame member and the flange of the side frame member being hinged to an end frame member whereby a side frame member and the end frame member having a flange may be folded in the space defined by the flange of the other end frame member while two side frame members may be folded in the space defined by the flange of the side member equipped with said flange. An extremely compact structure is thus produced as clearly seen in Fig. 4 of the drawing which has no resemblance whatever to folding bedsteads and similar structures heretofore known in the art.

Having thus described the invention, what is claimed as new, is:—

1. A device of the class described comprising six hingedly connected rectangular frame members, namely four side frame members and two end frame members, one of the latter being provided at one end with a flange extending at right angles thereto and one of the side frame members being also provided at one end with a flange extending at right angles thereto, the unflanged end frame member being positioned adjacent to the flange of the flanged side frame member and the flange of the flanged end frame member being juxtaposed to an unflanged side frame member, the flanges of the flanged end frame member and the flanged side frame member being positioned at diagonally opposite corners of the structure.

2. A device of the class described comprising six rectangular frame members, namely four side frame members and two end frame members, one of the latter being provided at one end with a flange extending at right angles thereto and one of the side frame members being also provided at one end with a flange extending at right angles thereto, the unflanged end frame member being positioned adjacent to the flange of the flanged side frame member and the flange of the flanged end frame member being juxtaposed to an unflanged side frame member, the flanges of the flanged end frame member and the flanged side frame member being positioned at diagonally opposite corners of the structure, the four side frame members being hingedly connected together in pairs to produce side frames and hinge connections being provided between the side frames and the end frame members to permit two side frame members including the one having a flange to fold within the space defined by the flange of one end frame member, and two side frame members to fold within the space defined by the flanged side frame member, the other end frame member folding externally of the side frame members folded upon the flanged side frame member.

3. A foldable crib and play pen structure comprising six rectangular frames, two of said frames being each provided with a flange at one end thereof extending at right angles thereto, hinges whereby said frames are connected to be folded flat on one another, and caster wheels having swivel connection with four of the frames to be folded flatwise against each other when the frames are folded.

In testimony whereof I affix my signature.
WILLIAM DERBYSHIRE.