

July 25, 1950

E. A. CLARK
PROTECTOR PEN

2,516,366

Filed May 9, 1944

3 Sheets-Sheet 1

Fig. 1.

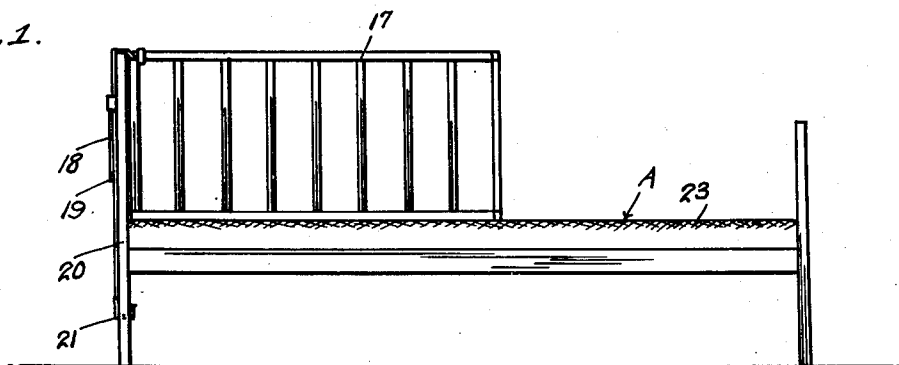


Fig. 2.

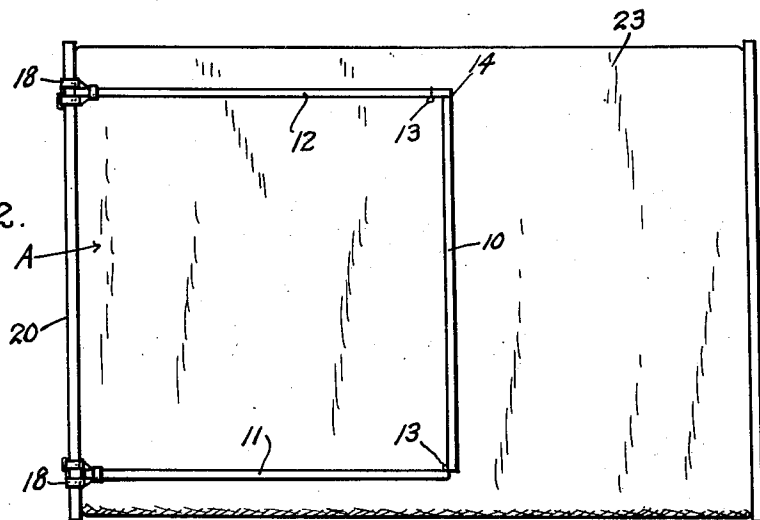


Fig. 3.

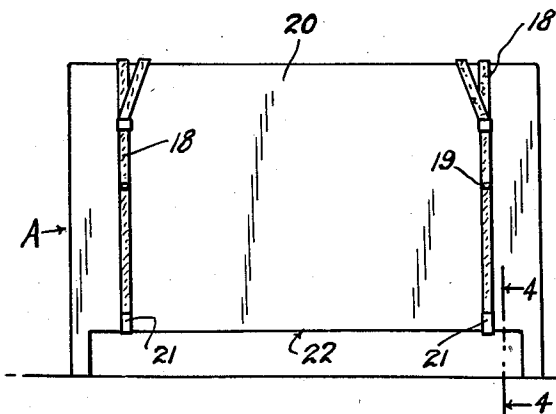
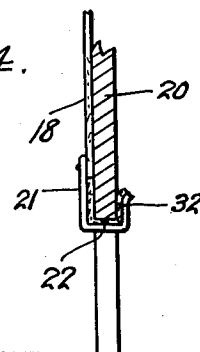


Fig. 4.



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3 Sheets-Sheet 2

Fig. 5.

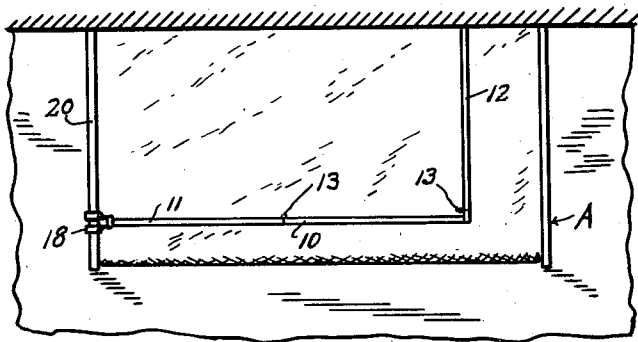


Fig. 6.

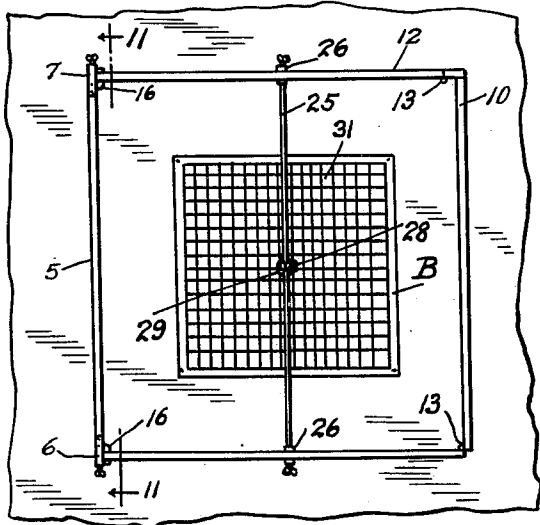


Fig. 7.

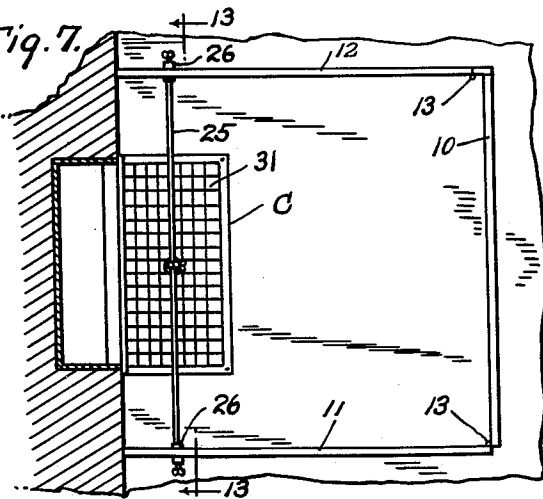


Fig. 8.

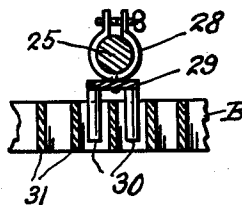


Fig. 9.

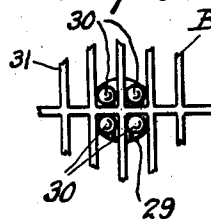
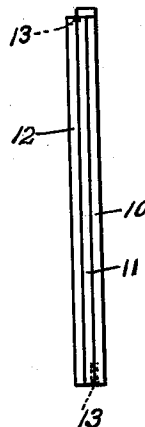


Fig. 10.



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3 Sheets-Sheet 3

Fig. 11.

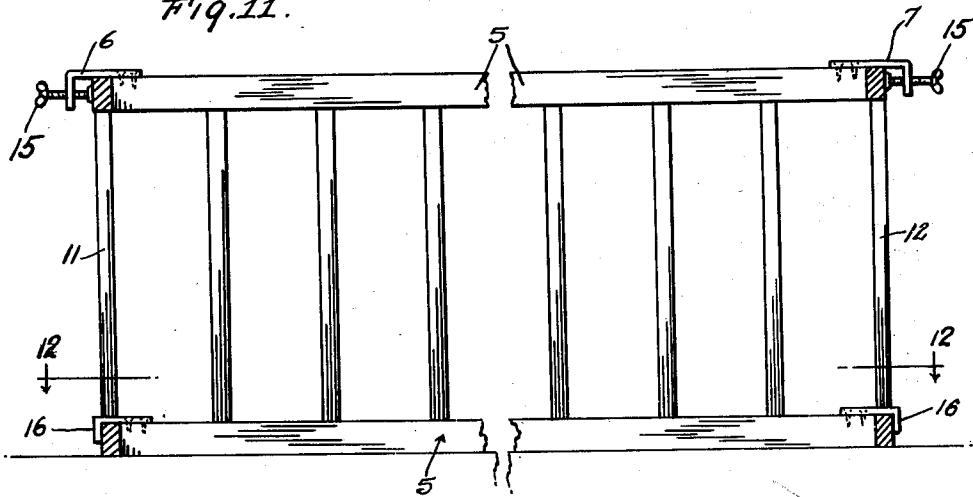


Fig. 12.

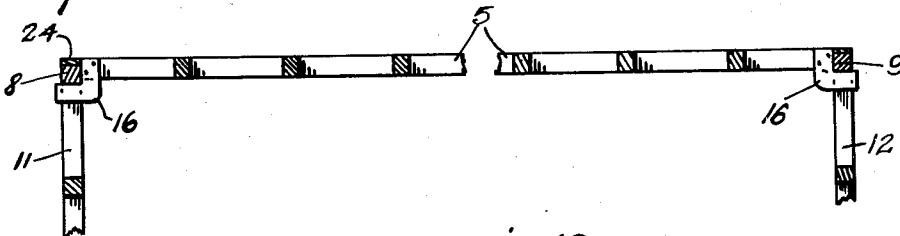


Fig. 13.

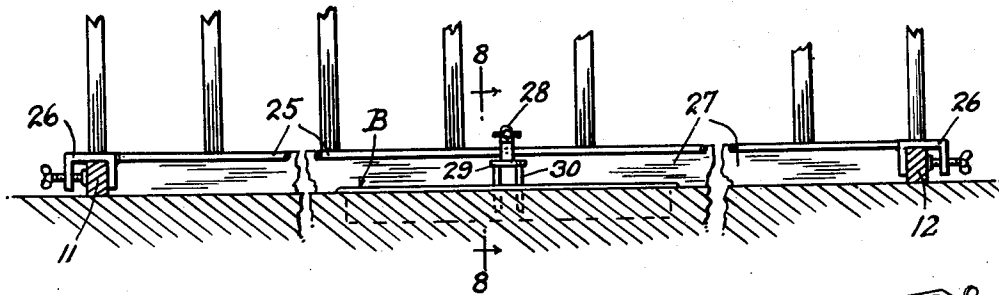


Fig. 14

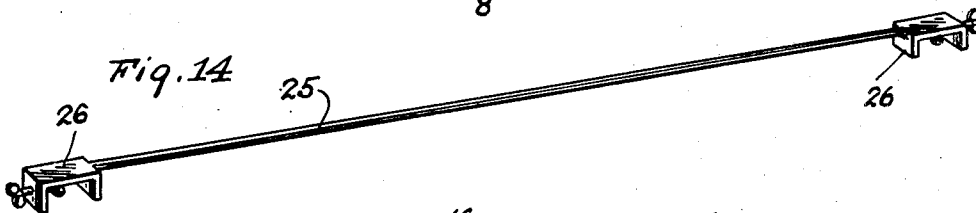
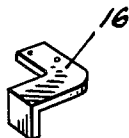


Fig. 15.



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UNITED STATES PATENT OFFICE

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PROTECTOR PEN

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Application May 9, 1944, Serial No. 534,755

1 Claim. (Cl. 5-95)

1

The invention relates to pens and more especially to protector play pens for infants.

The primary object of the invention is the provision of a device of this character, which can be readily and easily folded into compact form as a unit and is susceptible when erected for a combination of uses, which is readily attached to all types of beds to form a baby crib, or which can be used for a utility play pen, and additionally can be placed around a floor furnace register to form a protective guard.

Another object of the invention is to the provision of a device of this character which is constructed so that it folds very easily and can be transported with a minimum of trouble, so that it is a convenient article for trips or for a visit across town, with resultant safety in the use thereof for infants, to prevent harm or injury to them.

A further object of the invention is the provision of a device of this character, which can be folded with dispatch and set up for use, without requiring special tools for so doing, the device being novel in construction and unique for the various uses thereof.

A still further object of the invention is the provision of a device of this character, which is simple in construction, thoroughly reliable and efficient for the uses intended, strong, durable, conveniently handled, neat in appearance when set up for use, assuring safety to an infant when occupying the same, and inexpensive to manufacture and install.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings, which show the preferred embodiment of the invention, and pointed out in the claim hereunto appended.

In the accompanying drawings:

Figure 1 is a side elevation of a double bed showing the device constructed in accordance with the invention installed therewith.

Figure 2 is a top plan view thereof.

Figure 3 is an end view of the bed at its head showing the fastening of the device thereto.

Figure 4 is a fragmentary sectional view taken on the line 4-4 of Figure 3 looking in the direction of the arrows.

Figure 5 is a top plan view of a single or twin bed with one side against a wall with the device applied to the bed.

Figure 6 is a top plan view showing the device applied to the register of a heating furnace for service as a play pen.

2

Figure 7 is a view similar to Figure 6 showing the pen associated with a different type of register.

Figure 8 is a sectional view on the line 8-8 of Figure 13 looking in the direction of the arrows.

Figure 9 is a fragmentary plan view looking up at the structure shown in Figure 8.

Figure 10 is a side view of the device folded.

Figure 11 is a sectional view taken on the line 11-11 of Figure 6 looking in the direction of the arrows.

Figure 12 is a sectional view taken on the line 12-12 of Figure 11 looking in the direction of the arrows.

Figure 13 is a sectional view taken on the line 13-13 of Figure 7 looking in the direction of the arrows.

Figure 14 is a perspective view of the anchoring rod for the device when placed around a register.

Figure 15 is a perspective view of the attaching brackets of the device removed from a part thereof.

Referring now to the drawings wherein like reference characters denote corresponding parts the play or protector pen of this invention is formed with three panels 10, 11 and 12, the panels 11 and 12 being hinged to the panel 10 by hinges 13, and also a fourth panel as indicated by the numeral 5. Each of the panels is formed with an upper and lower rail, both of which are horizontally disposed, and these rails are connected by spaced vertically disposed slats the combination of which comprises complete rectangular shaped fences or panels.

One end of the panel 10 is provided with an extension or offset section 14, the length of which is substantially equal to the thickness of the panel 11, and the length of the panel 11 is slightly less than that of the panel 10 whereby the panel 11 falls within the offset section 14. The panel 12 then folds against the panel 11 as shown in Figure 13. The end surfaces of the outer ends of the panels 11 and 12 are covered with soft padding 24 as shown in Figure 12 to prevent scratching or marring a wall surface or the surface of a bedstead against which the walls of the pen may be positioned.

The panels 10, 11 and 12, therefore, provide a complete foldable unit which when open provides a pen with three sides.

The fourth or separate panel 5, as illustrated in Figure 11 is provided with L-shaped clamps 6 and 7 on the ends of the upper rail and thumb screws 15 in the downwardly extended ends of the clamps clamp the ends of the panels 11 and 12 to

3

the ends of the panel 5. The ends of the lower rail of the panel 5 are provided with clip angles 16 that extend around posts 8 and 9 at the ends of the panels 11 and 12, and then downwardly over the lower rail of the panels 11 and 12 as illustrated in Figures 11 and 12 to positively clamp the lower corners of the panels in assembled relation.

With the parts arranged in this manner the panels 10, 11 and 12 may be used without panel 5 to provide a pen on a bed as illustrated in Figures 1 and 2 or against a wall as shown in Figure 7 and when used on a bed the ends of the panels 11 and 12 are secured by straps 18 with buckles 19 therein to the head 20 of the bed with hooks 21 and the lower ends of the straps are secured under the lower edge of the head 22 of the bed which is indicated by the letter A.

The protective pen may also be used as illustrated in Figure 5 with the bed A positioned against a wall and with the panels 10 and 11 open to provide a continuous straight wall, the panel 12 providing an end of the pen with the outer end contacting a wall surface.

The device constituting the present invention comprises a pair of slatted frame panels 11 and connected at one vertical edge of one of the panels 11 by means of the angularly extending section 14 and a hinge 13 is a panel 10. The opposite end of the same panel 11 is swingably connected to the other panel 11 of the pair thereof by means of a hinge 13. Thus the panels 10 and 11 may be folded close together when the device is not set up as shown in Figure 10.

The section 14 on one end of one of the panels 11 is of a length to overlap the other panel 11 when all the panels are in folded position, and when in extended or set-up position, the width of the section 14, plus the width of the panel 10, is equal to the width of the panels 11. The panel 10 and one of the panels 11, at the upper corners thereof, have inverted substantially L-shaped clamping brackets 14' secured thereto by any well known fastening means and the brackets 14' are provided with binding screws 15, for detachably fastening the uppermost corner of the panels 10 and 11 to uppermost corners of panel 11'. The lower corner portions of panel 11' have secured thereto by any well known fastening means, laterally projected hook-like coupling members 16 which engage with the lower corners of the panel 11' and in this manner the panel 11' is detachably joined with panels 10 and 11, with all panels vertically set up for a four walled enclosure pen, as will appear in Figure 6 of the drawings.

In Figures 6, 7, 8 and 9 of the drawings, the device is shown in association with the heating registers B and C, of a furnace, and in this use of such device, there is employed an anchoring bar 25 having the clamping jawed ends 26, which are adapted for detachably connecting the bar 25 to the panels 10 and 11 and 12 on their lower rails 27, in properly located position with relation to either register B or C, and this bar has adjustably fitted thereto by a clamping collar 28, a stud-keeper 29, its studs 30 being adapted to interfit interstices 31 in the registers B and C, respectively, so that the device will be held in a fixed

4

position about the registers for the fencing thereof of providing a guard for an infant playing outside thereof. The device in association with the register B makes use of the detachable panels 11 and 12, and in use with the register C, the detachable panel 5 is dispensed with.

The hook ends 21 of the straps 18 are padded as at 32 to prevent marring of the bed A, while in use.

The device is readily foldable for transporting purposes or for storage in the least possible space when not in use.

What is claimed is:

A folding protector pen comprising a plurality of hinged panels with an additional panel positioned between the free ends thereof, each of said panels including upper and lower horizontally disposed rails with spaced vertically disposed slats connecting the rails, the upper rail of said additional panel having L-shaped clamps with thumb screws therein extended from the ends for clamping the outer ends thereof to the hinged panels, one of said panels having an offset section at one end thereof to facilitate nesting of the panels, clip angles extended from the ends of the lower rail of the panel having the L-shaped clamps thereon for temporarily securing the lower corners of the said panel to the said hinged panels, an anchoring bar having U-shaped clamps with thumb screws therein on the ends for clamping the said hinged panels in extended positions, and a keeper having a clamping collar on the upper surface for adjustably positioning the keeper on the said bar and having depending studs extended therefrom for engagement with a register for retaining the panels in positions over the register.

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