

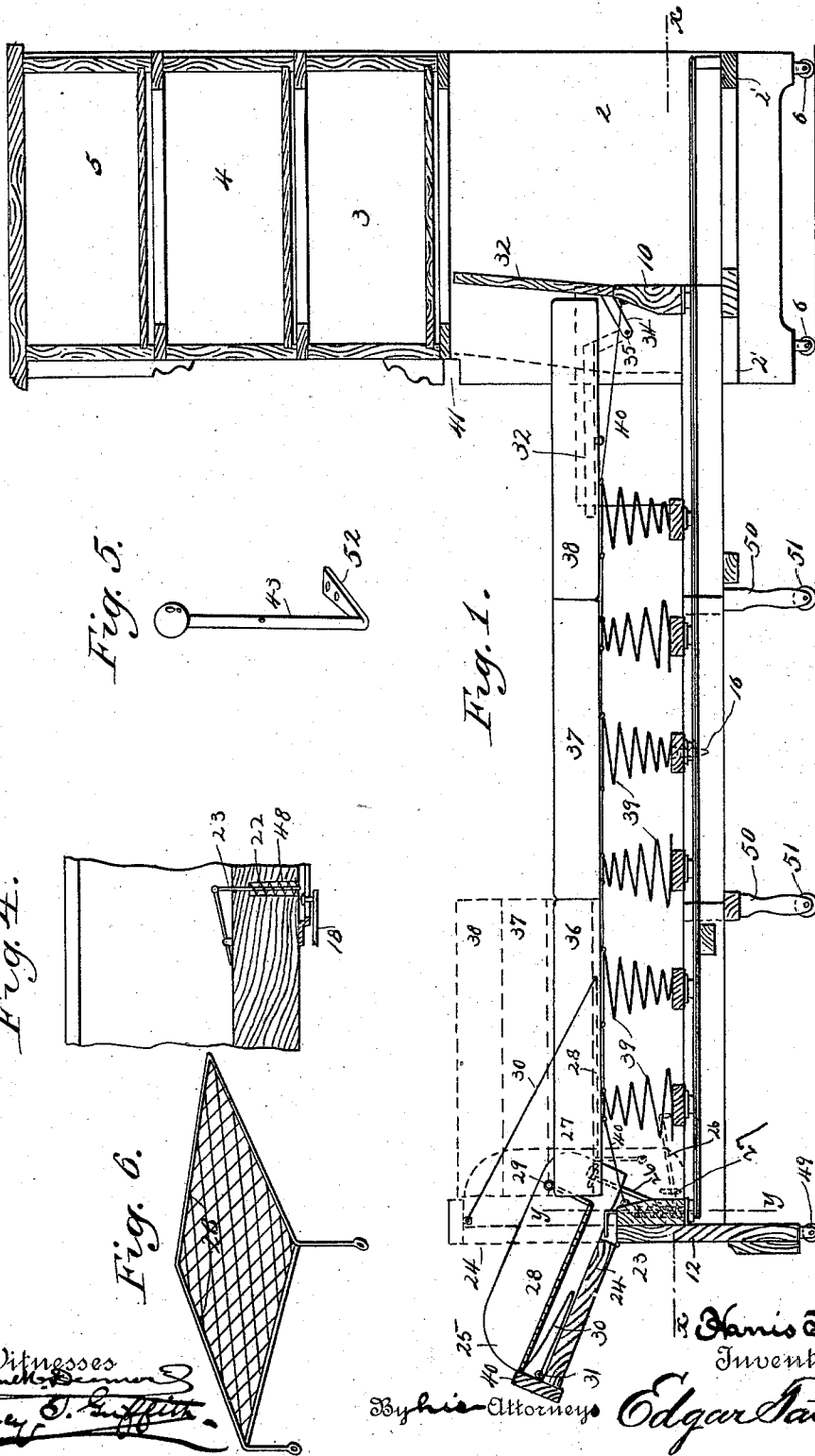
(No Model.)

2 Sheets—Sheet 1.

H. KARP.
CABINET BED OR CRIB.

No. 547,170.

Patented Oct. 1, 1895.



Witnesses
John H. Deming
Henry O. Buffum

Hans Karp
Inventor
By *his* Attorneys *Edgar Slater & Co*

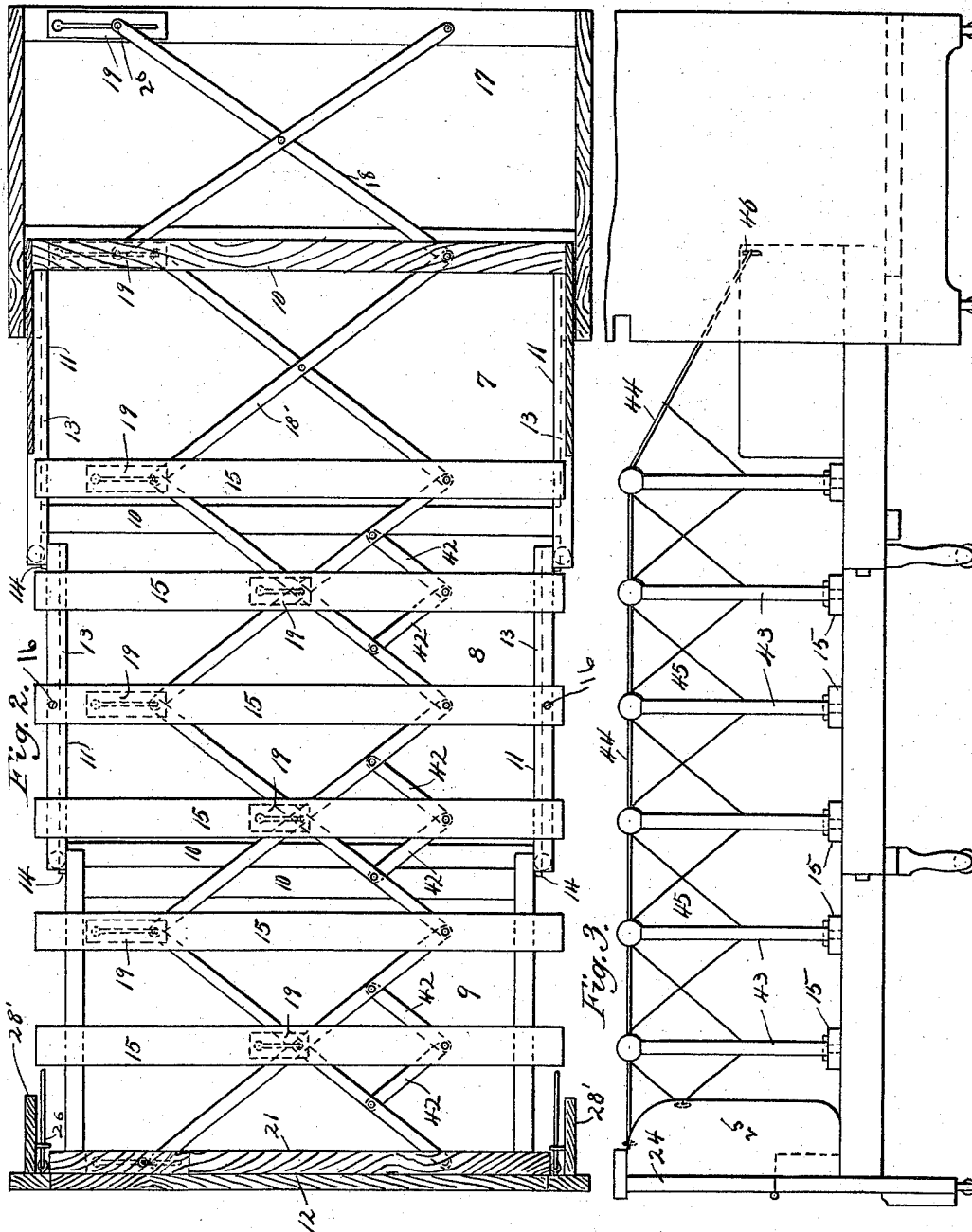
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H. KARP.
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Witnesses
Samuel D. Cameron
Ray E. Griffith

Harris Karp
Inventor

By his Attorneys *Edgar Tate & Co*

UNITED STATES PATENT OFFICE.

HARRIS KARP, OF NEW YORK, N. Y.

CABINET BED OR CRIB.

SPECIFICATION forming part of Letters Patent No. 547,170, dated October 1, 1895.

Application filed March 25, 1895. Serial No. 543,004. (No model.)

To all whom it may concern:

Be it known that I, HARRIS KARP, a citizen of the United States, and a resident of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Cabinet Beds or Cribs, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar numerals of reference indicate corresponding parts in all the figures.

This invention relates to cabinet bedsteads in which an upright or fixed frame or casing is provided to receive the bed and bedstead and conceal them from view when not in use; and the invention involves certain novel features of construction and combinations of parts, which will be fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a central vertical section of my improvement, the bed being extended as when ready for use; Fig. 2, a section on the line xx of Fig. 1; Fig. 3, a section on the line yy of Fig. 1; Fig. 4, a side elevation showing a cot attachment which I employ; Figs. 5 and 6, details of the construction.

Referring to Fig. 1 of the drawings, the numeral 2 designates the usual frame employed in this class of devices, the upper part of which, in my improvement, constitutes a cabinet or similar article having a series of drawers 3, 4, and 5, and the frame 2 is preferably mounted on rollers 6. The base of the frame 2 is adapted to receive a series of sliding frames 7, 8, and 9, the first two of which, 7 and 8, consist of end pieces 10 and side pieces 11, and the last section 9 being provided at its inner end with an end piece 10, corresponding with the end pieces of the other sections and connected at its outer end with the foot-board 12 or a plate 21 connected therewith. The sides 11 of the inner section 7 are provided on their inner surfaces with longitudinal grooves 13, in which slide lugs or projections 14, formed on or connected with the inner ends of the sides 11 of the middle section 8, on the outer sides thereof, and the inner surfaces of the sides of section 8 are provided with similar grooves 13, (shown in dotted lines,) adapted to receive lugs or projections 14, formed on or connected with the

inner ends of the sides of section 9, on the outer surface thereof. Each of the sections 7, 8, and 9 are provided with cross-bars 15, arranged, preferably, as shown, one on section 7, three on section 8, and two on section 9. All of these bars rest loosely on the sections and are movable thereon except the middle bar on section 8, which is secured at each end to the sides of the section by a screw 16, as shown in Fig. 2, and constitutes a part of the frame of said section.

Pivotally connected with the back of the frame 2 at 17 is a pair of lazy-tongs 18, one member of which is pivotally connected with the frame and the other also pivotally connected by means of a slotted casting 19, secured to the frame, and a pin or pivot 20, secured to the member of the lazy-tongs and projecting into said slot, and the other end of said tong is united to the inner end 10 of the frame of section 7 in the same manner, one of said members being simply pivoted to the end piece and the other connected with a slotted casing 19, secured to the bottom of said end piece, the connections being made by means of a pivot or pin connected with the end of the lazy-tongs. The object of this arrangement of the lazy-tongs is to prevent the end section 7 from being withdrawn entirely from the casing and to guide and steady it, it being intended that this section may be drawn out to the point indicated in dotted lines, if desired, but no farther, at which point the end of the section will still be retained on the support 2', which is secured within the bottom of said casing. A second set of lazy-tongs 18' is also connected with the inner end of the piece 10 of the inner frame 7 in the same manner as the first set of tongs, above described, one of said members being pivotally connected at one side of said end piece and the other being provided with a pin or pivot extending into the slot in the slotted casting 19 and inside of the pivotal connection of the arm of the first lazy-tongs hereinbefore referred to. The details of this pivotal connection with the slotted casting 19 are more clearly shown in Fig. 4, in which it will appear that the pivot or pin connecting with the slotted tongs is provided with a head which will prevent its accidental removal from said slot. The last-named set of lazy-

tongs is extended beneath the sliding sections or frames, and the separate members thereof are successively connected in the same manner and on the same side of said frames with the cross-bar 15 on section 7, the middle cross-bar 15 on section 8, which is secured to said section frame, and the inner cross-bar 15 on section 9, and the last three sections of the lazy-tongs are also connected at their central pivotal points by means of a similar slotted casting and pin, and they are also connected at their central pivotal points by means of a similar slotted casting and pin with the two end bars or straps on section 8 of the frame and the last end bar on section 9, as clearly shown in Fig. 1, and the last member of said lazy-tongs is pivotally connected with the board or plate 21, secured to the foot-board 12, as shown in Fig. 2, the central pivotal connections of the members of the lazy-tongs with the end cross-bars 15 on the middle section and the outer end bar on section 9 being made by means of a slotted casting secured to the under side of said bars and a pin or pivot connected with the lazy-tongs working therein, as hereinbefore described.

Within the plate or board 21 is a recess 22, (shown in Fig. 4,) in which is pivoted one arm of a crank-lever 23, one arm of which extends upward adjacent to the foot-board and is adapted to be operated by a top section 24, hinged to said foot-board, and the other arm of which depends through the bottom of said board or plate 21, as clearly shown in Fig. 4, and is adapted to operate in connection with the slotted plate 19 and arm of the lazy-tongs, as hereinbefore described. The hinged section or top 24 of the foot-board is provided with side boards 25, and may be folded back to the position shown in Fig. 1, or forward to the position shown in dotted lines in said Fig. 1, where it is held by means of a pivoted rod 26, connected with the foot-board 12, and a hook or loop 27, connected with the side boards 25. Within the side boards 25 is pivoted, at 29, the separate sides of an angular wire frame or equivalent device 28, (shown in Fig. 6,) which is adapted to fold backwardly within the side boards 25, as shown in Fig. 1, and form a continuation of the mattress, or when the hinged section 24 is in vertical position, as shown in dotted lines, to fold forward over the springs, as shown in dotted lines, forming a support for the mattress, the free end of said frame having connected therewith a cord or chain 30, which is also connected with the inner upper end of section 24, the object of which is to hold the frame 28 and mattress off of the springs.

At the opposite end or head proper of the bedstead is a pivoted plate or board 32, which forms an upward extension of the cross-bar or end piece 10, which is upwardly extended, as shown, and the board 32 may be folded forward to the position shown in dotted lines, if desired, where it will serve as a support for the mattress, the same as the frame 28, when

it is desired to fold the mattress at this end because of the location of the bed, and is held in an upright position by means of a rod or bar 34, connected with a hook or projection 35, connected with the side of the frame 2 to which it is pivotally secured. By this arrangement of the board 24 it will be apparent that the length of my improved bed may be increased, if desired, by folding said part 24 outwardly, as described, or shortened by folding it to the vertical position. In either case either end may be used as the head or foot, as desired.

In my improved bed the mattress is formed in sections 36, 37, and 38, and may be folded into the position shown in dotted lines in Fig. 1, the abutting ends of sections 36 and 37 being connected on the upper side by means of a flexible fabric or similar article or by the material of which the mattress is formed, and the abutting ends of sections 37 and 38 being connected on their lower sides in the same manner, or they may be entirely independent, if desired.

On the cross-bars 15 of each of the sections 7, 8, and 9 of the frame of the bed are placed the usual springs 39, which are or may be connected with said cross-bars in any desired manner, and which are also connected at their tops to the ends of the frame by means of a cord 40. As thus constructed, it will be readily seen that the sections of the mattress may be folded or placed in the position shown in dotted lines, and the separate sections of the bed-frame 7, 8, and 9 slid forward into the casing 2, the top plate 40 of the hinged top or section 24 of the foot-board entering the notch or recess 41 in the sides of the casing, the lugs or projections 14 in this operation moving in the longitudinal grooves 13 and guiding the sections, as will be readily understood, and when it is desired the said sections may be extended, as shown in Fig. 1, by simply reversing the operation. Of course the bars 10 do not extend clear across the bottom of the side frames, but only to a depth about equal to the depth of the slots 13, by which arrangement I am enabled to slide the sections within the casing, as herein described. I have also connected with the lazy-tongs 18', between the three outer members thereof, pivotally-connected arms 42, each of said arms being pivotally connected at one end and with one of the cross-bars 15 immediately over said connection, and each thereof being pivotally connected with a separate member of the lazy-tongs, as shown, the object of this arrangement being to steady the operation of said lazy-tongs and prevent, as much as possible, the lateral motion or twisting thereof in the operation of drawing out or collapsing the separate sections of the bed-frame, and to guide the bars 15 and keep them in position on the sections of the frame on which they are placed.

In Fig. 3 I have shown an arrangement by which my folding bed may be converted into

a cot, which consists simply in connecting with the sides of the separate sections or frames and the foot-board a framework consisting of posts 43, the upper ends of which are connected by a cord 44, which passes through beads formed thereon, and which are provided with an intervening flexible network 45, said cord being also connected with the foot-board 34 or one of the side boards secured thereto, and at the front with the side of the inner section at 46 in any desired manner. The vertical posts 43 are set into perforations or holes 47, formed in the cross-bars 15 of the sliding frames of the bed, and the cord 44 may be connected with the foot-board in any desired manner, and I prefer to make the connection between the bottom of the post 43 and the cross-bars 15 by means of a shoe or projection 52, formed on the lower ends of said cross-bars and provided with perforations adapted to receive screws, by which a firm support is secured and the lateral displacement of said posts prevented. It will be seen that this arrangement constitutes a neat and simple cot and is readily formed, the framework being comparatively inexpensive and readily attached or removed whenever desired, and the network between said posts and the cords connected to the tops thereof being flexible it will be readily observed that the cot-frame may be folded within the casing 2 in the same manner as hereinbefore described with reference to the bedstead consisting of the separate sections or frames, the construction of these parts being exactly the same as hereinbefore described, and the only difference being the addition thereto, in the manner described, of the framework which constitutes the cot.

Referring again to Figs. 1 and 4 of the drawing, it will be observed that when the hinged top plate 24 of the foot-board is in the vertical position the lever 23 will be in the position shown in Fig. 4, and the lower arm 25 thereof withdrawn from its connection with the slotted casting 19 and the pivot 20 of the lazy-tongs, and said tongs will be free to act in the usual manner. When, however, said hinged section of the footboard is folded back, as shown in Fig. 1, the lower end of said crank-lever will be depressed by the spring 48, and said arm 25 will enter the slot in said casting and lock the lazy-tongs in the position shown in Figs. 1 and 2 and prevent the operation thereof, in which position the bed cannot be collapsed or the sections thereof folded within the casing, and said sections or frames are prevented from being separated by means of the slotted casting 19 at one side of the bars 15, in connection with which the slotted tongs operate by means of the pin or pivot 20, this arrangement being intended to prevent the expansion of the slotted tongs to an extent which would admit of the separation of the sections.

In my construction the foot-board is preferably supported by means of rollers 49, and the

separate sections of the bed-frame by means of legs 50, secured thereto in any desired manner and provided with rollers 51, which not only aid in supporting said sections, but assist materially in the operation of extending or collapsing the same, as hereinbefore described, these legs or supports being closed within the side frames of the casing when the sections of the bed-frame are folded therein, as will be readily understood, the whole forming a complete, compact, and ornamental arrangement.

I do not limit myself to the exact construction shown, as it is evident that many changes therein and modifications thereof may be made without departing from the scope of my invention; but,

Having fully described my invention, its construction and operation, what I claim, and desire to secure by Letters Patent, is—

1. In a cabinet or folding bed, the combination, with a casing, of a series of frames connected therewith and adapted to slide one within the other and within the casing, one of said frames being connected with the foot-board and each of said frames being provided with movable cross bars resting thereon, and the middle section of said frames being provided with a cross bar firmly secured thereto, and a pair of lazy tongs pivotally connected at one end with the inner end of the inner section, and the separate members thereof being also pivotally connected with each of said cross bars and with the foot-board, and means for preventing the withdrawal of the inner section from the casing, whereby the said sections may be withdrawn from the casing but cannot be separated one from the other or from said casing, and again folded therein, substantially as shown and described.

2. In a cabinet or folding bed, the combination, with a casing, of a series of sections or frames adapted to slide one within the other, each of which is provided with a cross bar or bars and one of which is connected with the foot-board and another adapted to be held within the casing, said cross bar or bars being loosely mounted on said sections, with the exception of one, which is rigidly secured to the center of the middle section, and a pair of lazy tongs pivotally connected at one end with the inner end of the inner section or frame, one member thereof being connected with the inner section or frame by means of a slotted casting secured thereto, and a pin or pivot connected with the member of the lazy tongs and operating therein, the adjacent sections of the lazy tongs being also similarly connected with the cross bars and the opposite end of the lazy tongs being also similarly connected with the foot-board, substantially as shown and described.

3. In a cabinet or folding bed, the combination with a casing, of a series of sections or frames adapted to slide one within the other and be folded within the casing, the inner section or frame being provided with means to

prevent its entire withdrawal from the casing, and each of said sections being provided with cross bars loosely mounted thereon and the middle section being also provided with a cross bar rigidly secured thereto, and a pair of lazy tongs pivotally connected at one end to the inner end of the inner frame and to each of the cross bars on each of the frames and to the foot-board, the connection at one side of said lazy tongs being made by means of slotted castings secured to the cross bars and to the foot-board and one end of the inner section or frame, and pivots or pins connected with the lazy tongs and operating in said slot, and the other ends of said members of the lazy tongs being connected with the said cross bars and the foot-board and the inner end of the inner section or frame by pivots in the usual manner, substantially as shown and described.

4. In a cabinet or folding bed, the combination, with a casing, of a series of sections or frames adapted to slide one within the other and be folded within the casing, the inner section or frame being provided with means to prevent its entire withdrawal from the casing, and each of said sections being provided with cross bars loosely mounted thereon and the middle section being also provided with a cross bar rigidly secured thereto, of a pair of lazy tongs pivotally connected at one end to the inner end of the inner section and to each of the cross bars on each of the frames and to the foot-board, the connection at one side of said lazy tongs being made by means of slotted castings secured to the cross bars and to the foot-board and one end of the inner section or frame, and pivots or pins connected with the lazy tongs and operating in said slot, and the other ends of said members of the lazy tongs being connected with the said cross bars and the foot-board and the inner end of the inner section or frame by pivots in the usual manner, said lazy tongs being also provided between the last three members or sections thereof with arms pivoted to the adjacent arms of the lazy tongs, said arms being pivotally connected at their opposite ends with the cross bars, substantially as shown and described.

5. In a cabinet or folding bed, the combination, with a casing, of a series of sections adapted to slide one within another and within the casing, and means for preventing the separation of the inner section from the casing, of a pair of lazy tongs connected with the inner end of the inner section, with a central cross bar secured to the middle section and with movable cross bars on each of said sections, and the outer end of said tongs being connected with the foot-board, one end of said tongs being connected with said foot-board by means of a slotted casting secured thereto and a pin connected with said member of the lazy tongs and working therein, and a spring operated lever provided with an arm extend-

ing into said slot, by which the collapsing of the lazy tongs is prevented, said lever being also operated by means of a hinged top section connected with the foot-board, the operation of the spring being to hold the arm of the lever and the lazy tongs in contact and prevent the collapsing thereof and of the section of the foot-board to disconnect said parts and permit the collapsing of the lazy tongs, substantially as shown and described.

6. In a cabinet or folding bed, the combination, with a casing, of a series of sections or frames adapted to slide one within the other and within said casing, the inner frame being provided with a pair of lazy tongs connected with the inner side thereof and with the casing, which operate to permit of the movement of said frame but prevent its separation from the casing, and a pair of lazy tongs connected with said inner frame and with a cross bar secured to the middle of the middle section or frame and with movable cross bars mounted on each of said sections or frames, and with the foot-board, the connection of said lazy tongs at one side with the inner end of the inner section, with each of the cross bars and with the foot-board being by means of a slotted casting secured to each of said parts, and a pin or pivot connecting the arms of the lazy tongs and extending therein, and a spring-operated lever connected with the foot-board and provided with an arm adapted to be extended into the slot in said casting at that point and prevent the collapsing of said lazy tongs, said lever being operated by a hinged section of the foot-board to lock said lazy tongs in position, said hinged section of the foot-board being adapted to fold backward, in which position the lever is operated by the spring to hold the arm thereon in the slot in the casing and prevent the collapsing of the lazy tongs, substantially as shown and described.

7. In a cabinet or folding bed, the combination, with a casing, of a series of sections or frames adapted to slide one within the other and within the casing, means for preventing the withdrawal of the inner section from the casing, and a cot frame, consisting of a series of posts connected with each of said sections at their lower ends and at their upper ends by means of a cord, said cord being also connected with the foot-board and with the inner end of the inner section or a side-board thereof, the construction and arrangement being such that the entire frame and sliding sections and foot-board connected therewith may be folded together and within said casing, substantially as shown and described.

8. In a cabinet or folding bed, the combination, with a casing, of a series of sections or frames adapted to slide one within the other and within said casing, said sections or frames being provided with a frame consisting of a series of posts arranged on each side thereof connected at their bottom with said sections

or frames and on each side at their tops by a cord which passes through heads formed thereon, said cord being connected at one end with the foot-board and at the other with the inner end of the inner section or frame, and a net-work between said posts also composed of flexible material, the construction and arrangement being such that the sections are adapted to slide one within the other and within the casing without removing the frame, substantially as shown and described.

9. In a cabinet or folding bed, the combination, with a casing, of a series of sections or frames adapted to slide or fold one within the other and within the casing, one of said sections being connected with the foot-board, and said foot-board being provided with a hinged top section adapted to fold backwardly and provided with side-boards having pivoted thereon to each side a wire or other frame adapted to lie within the sides of the hinged foot-board when the same is folded backwardly and to project forward over the springs of the bed when the said hinged portion of the foot-

board is in a vertical position, substantially as shown and described.

10. In a cabinet or folding bed, the combination of a series of hinged sections or frames adapted to slide one within the other and within the casing, one of said sections or frames being connected with the foot-board, said foot-board being provided with a hinged or top section having side-boards connected therewith and adapted to fold outwardly, and a wire frame pivotally connected with said side-boards and resting within said frame when the latter is folded outward, whereby the length of the bed is extended, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 22d day of March, 1895.

HARRIS KARP.

Witnesses:

PERCY T. GRIFFITH,
A. M. CUSACK.