

(No Model.)

4 Sheets—Sheet 1.

W. F. & W. H. KEEP.

ELECTRIC ALARM APPLIED TO COTS, &c.

No. 299,649.

Patented June 3, 1884.

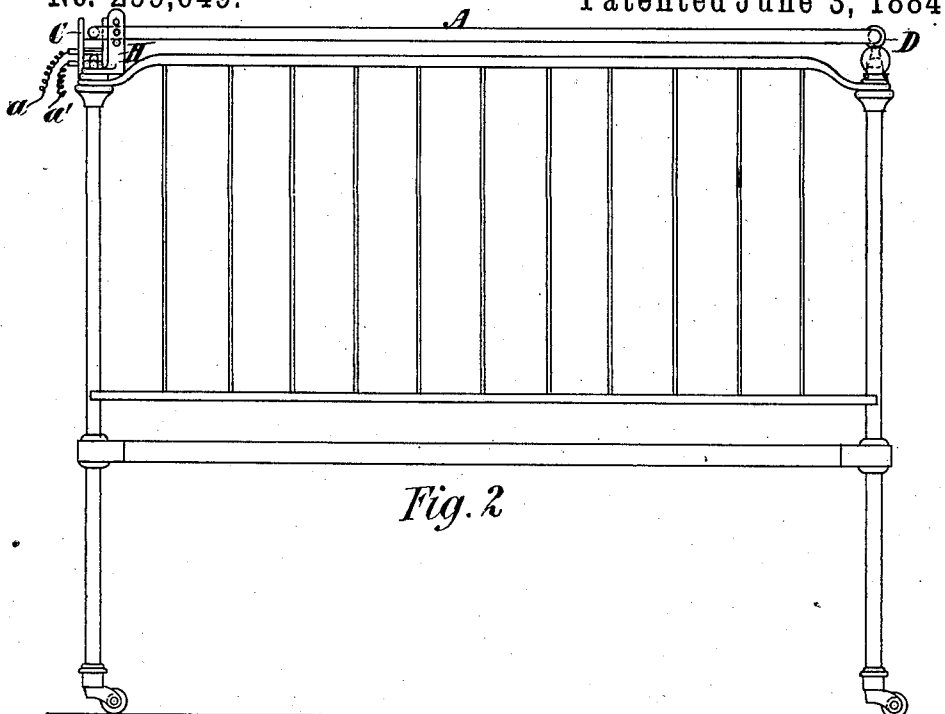


Fig. 2

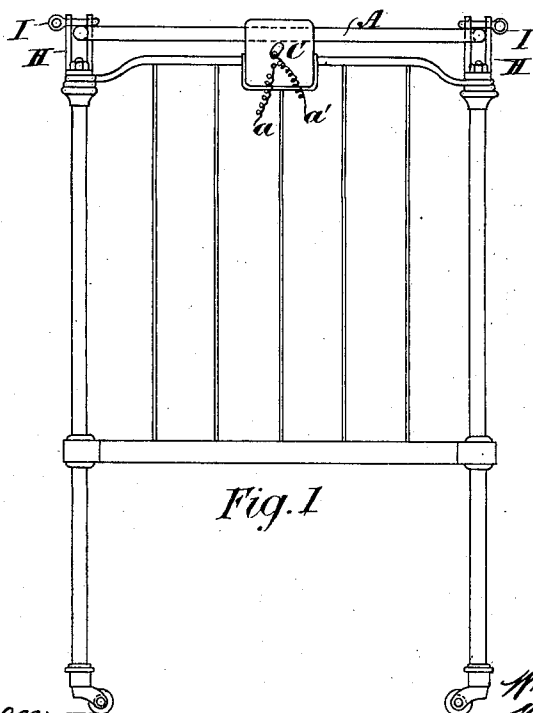


Fig. 1

Witnesses:

*O. Sundgren*  
*Matthew Pollock*

Inventors:

*Wm. Frank Keep*  
*Walter H. Keep*  
*by their attys*  
*Brown & Hall*

(No Model.)

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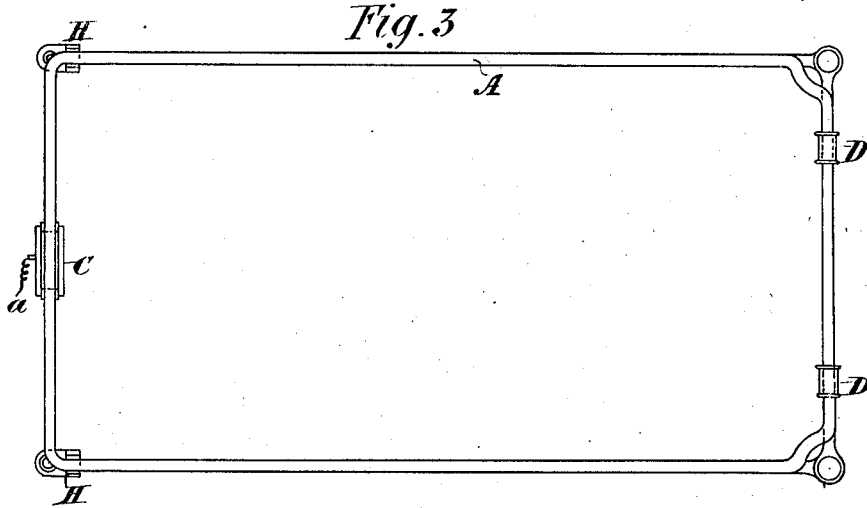


Fig. 4

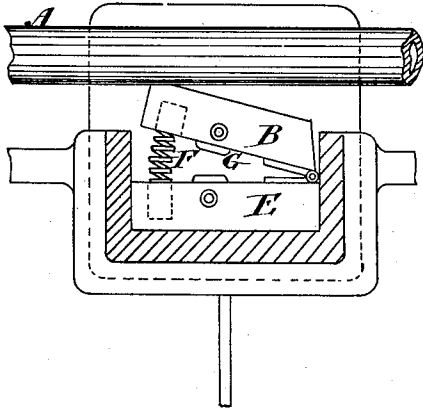


Fig. 5

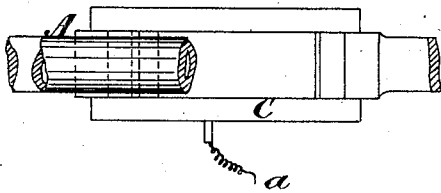


Fig. 6

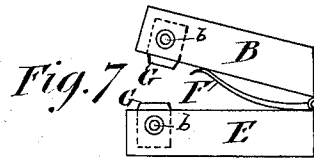
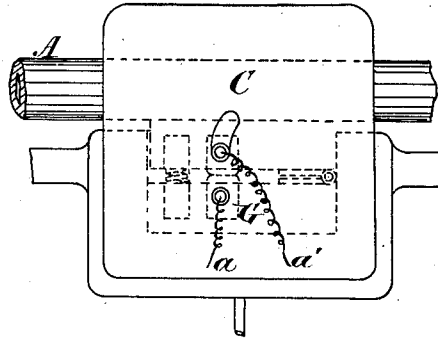
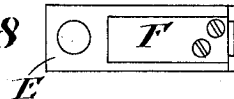


Fig. 8



Witnesses:  
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 Matthew Pollock

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(No Model.)

4 Sheets—Sheet 3.

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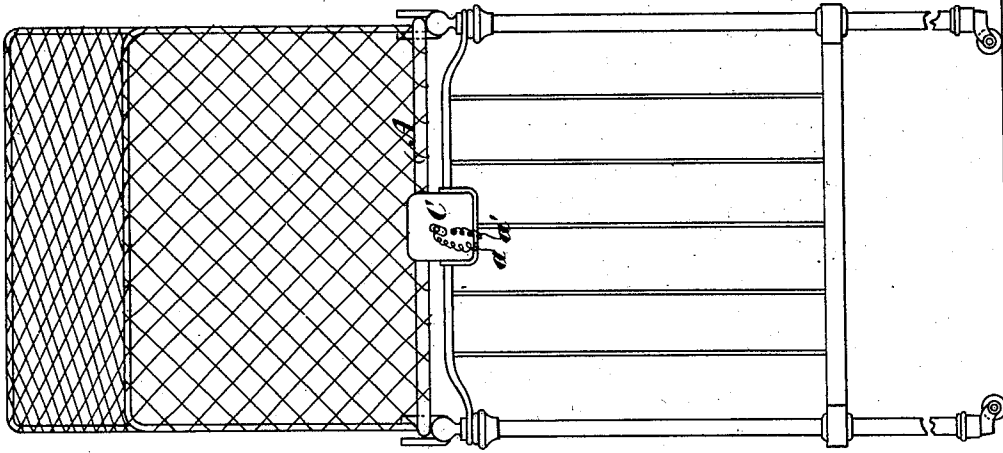


Fig. 11

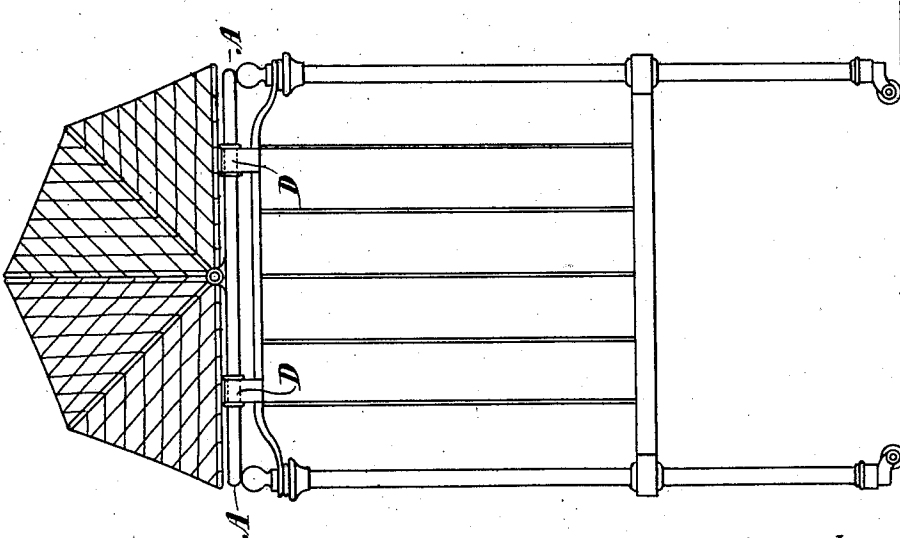


Fig. 9

Witnesses:  
 O. Sundgren  
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 Brown & Hall

(No Model.)

4 Sheets—Sheet 4.

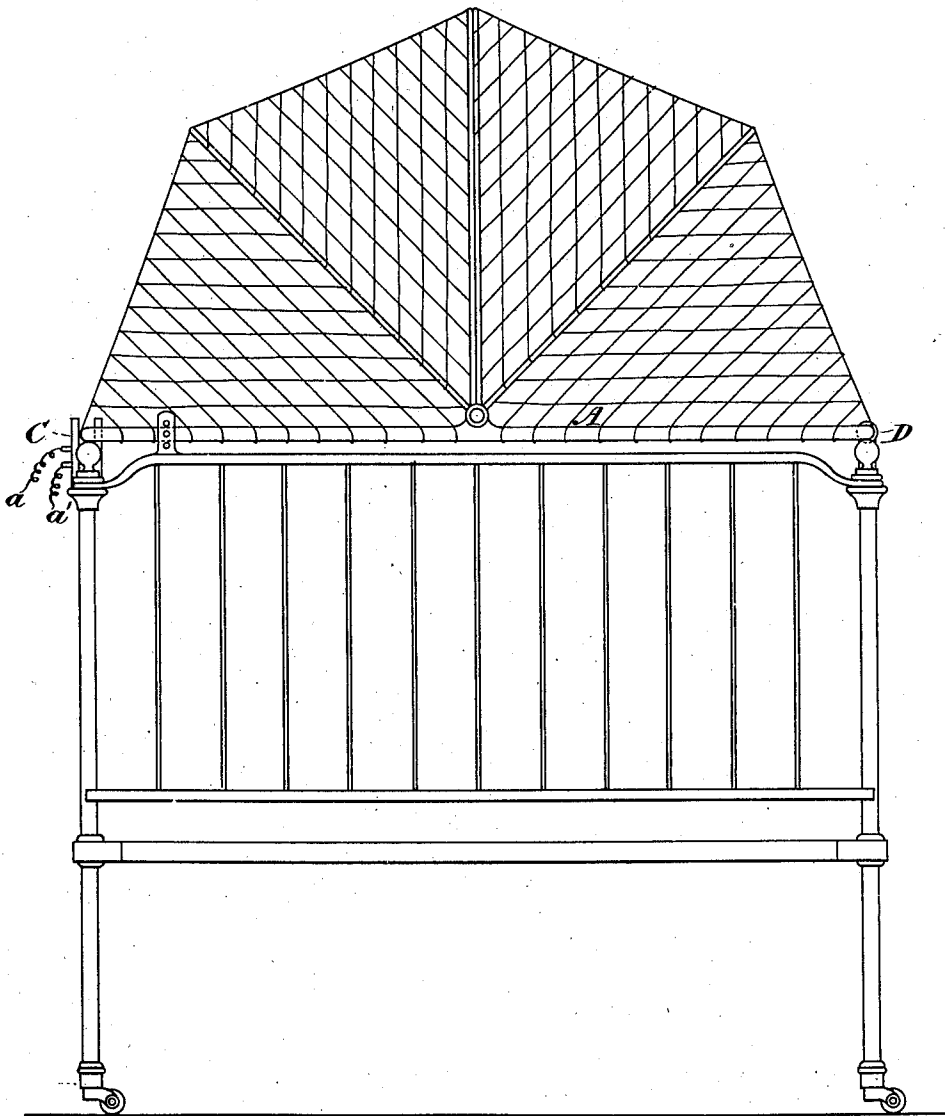
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*Fig. 10*



*Witnesses:*

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Matthew Pollock*

*Inventors:*

*Wm Fred Keep  
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# UNITED STATES PATENT OFFICE.

WILLIAM F. KEEP AND WALTER H. KEEP, OF 11 HAZELLVILLE ROAD,  
HORNSEY LANE, COUNTY OF MIDDLESEX, ENGLAND.

## ELECTRIC ALARM APPLIED TO COTS, &c.

SPECIFICATION forming part of Letters Patent No. 299,649, dated June 3, 1884.

Application filed February 9, 1884. (No model.) Patented in England September 5, 1883, No. 4,265.

*To all whom it may concern:*

Be it known that we, WILLIAM FREDERICK KEEP and WALTER HUGH KEEP, citizens of Great Britain, both residing at 11 Hazellville Road, Hornsey Lane, in the county of Middlesex, England, have invented new and useful improvements in electric alarms to be applied to children's cots and bedsteads for preventing accidents, of which the following is a specification.

Our invention has for its object the prevention of accidents owing to the tendency in infants and children to leave their cots or bedsteads; and it consists in the combination, with the upper part of the cot or bedstead, of a hinged or movable frame with or without a light cover or hood, such frame resting on a spring-block, which, when depressed by the weight of the child attempting to climb over the frame, brings in contact two pieces of brass or other suitable metal, and forms an electric circuit which causes the sounding of a bell or alarm, placed in any convenient situation.

The apparatus for forming the electric circuit may be of any known or suitable kind, and may be contained in a box fixed to the upper part of the cot or bedstead at the end or side, and preferably opposite to the hinges of the said frame.

Figure 1 is an end view of a cot or bedstead fitted with our improved apparatus. Fig. 2 is a side view, and Fig. 3 is a plan or horizontal view, of the same. Fig. 4 is an enlarged view of part of a bedstead, as shown in Fig. 1, but with the front of the box containing the apparatus for making and breaking the electric circuit removed. Fig. 5 is a plan or horizontal view of Fig. 4. Fig. 6 is a similar view to Fig. 4, but with the box entire, and showing the said apparatus by means of dotted lines. Fig. 7 is an elevation of the blocks detached, showing another form of spring between the blocks. Fig. 8 is a plan of the lower or stationary block. Figs. 9, 10, and 11 show different views of a bedstead fitted with the said apparatus, in combination with a netted hood or cover.

In these several figures the same letters of reference designate corresponding parts.

In Figs. 1, 2, and 3 a hinged or movable

frame is shown at A without a hood or cover, and in Figs. 9, 10, and 11 it is shown with a hood or cover. This frame may be either hinged, as shown at D D, or it may be constructed without a hinge, so as to be readily capable of vertical movement to the extent of an inch or thereabout, by means of downward pressure. In the latter case an apparatus for making and breaking the electric circuit would be required at two opposite sides or ends of the cot or bedstead, and also one vertical guide for the frame at or near each corner of the cot or bedstead. One side or end of this frame rests on a movable spring-block, B, which, when depressed by the weight of the child applied to the frame A, brings in contact the two pieces of brass or other suitable metal, G, as shown by dotted lines in Fig. 6, and forms an electric circuit by means of the wires *a a'* from the battery, and which causes the sounding of such bell or alarm, fitted in any convenient situation. The said apparatus for making and breaking the electric circuit is or may be contained in a box, C, fixed to the part of the cot or bedstead at the end or side—preferably opposite to the hinges D of the said frame—and consists of one fixed block, E, to which is hinged at one end the said movable block B, and a suitable spring, F, being fixed between the blocks B and E to keep them apart, as required. There is also inserted in or connected to each block a piece of brass or other suitable metal, G, Fig. 7, slightly projecting therefrom, and which pieces are kept apart by the spring F when at rest, but are brought in contact on its compression. The wires *a* and *a'* from the bell and battery are connected to metal pins *b b*, which are insulated, except at their points of contact, and which are inserted in sockets formed in the contact-pieces G, thereby completing the electric circuit on the compression of the spring F and the contact of the pieces G.

If the hinges are made at one end of the cot or bedstead, we arrange two guides or sockets, H H, which are fixed near the two corners at the sides of the bedstead, opposite the hinges D D, and pins I are so arranged as to fix the frame A either so as not to act at all upon the block B or to prevent the said frame from rising too far.

The hood or cover referred to above may be of any convenient form, and the netting of which it is made may be of wire, cord, silk, or any other suitable material.

5 What we claim as our invention, and desire to secure by Letters Patent, is—

1. The combination, with a cot or bedstead, of a movable frame attached to the upper part thereof, and an apparatus, substantially as  
10 herein described, for making and breaking the electric circuit of an alarm or bell, substantially as herein set forth.

2. The combination, with a bedstead or cot

and a movable frame hinged to the upper part thereof at one side or end, of the circuit-closing device of an electric alarm interposed between the cot or bedstead and said movable frame on the side or end opposite to that at which they are hinged together, substantially as herein described.

WM. F. KEEP.

WALTER H. KEEP.

Witnesses:

WILLIAM SPENCE,  
ARTHUR VENN.