

H. A. ATKINSON.  
 COT FOR ATTACHMENT TO BEDS.  
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961,669.

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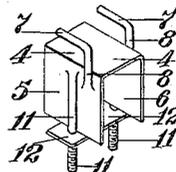
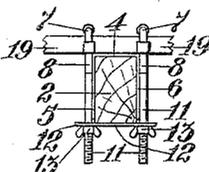
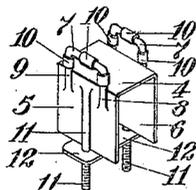


Fig. 1.

Fig. 2.

Fig. 3.

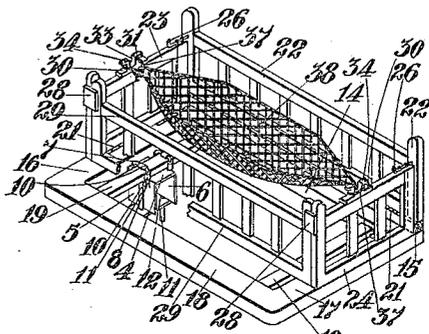
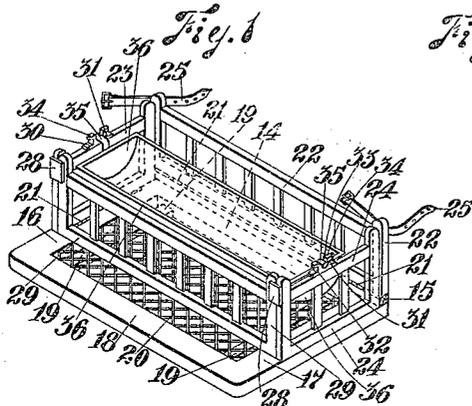


Fig. 4.

Fig. 5.

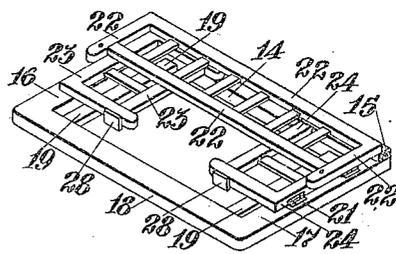
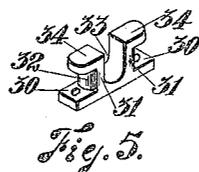
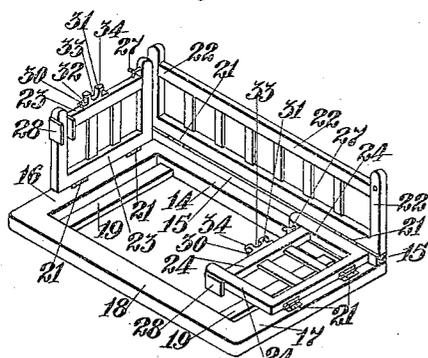


Fig. 6.

Fig. 7.

Fig. 8.

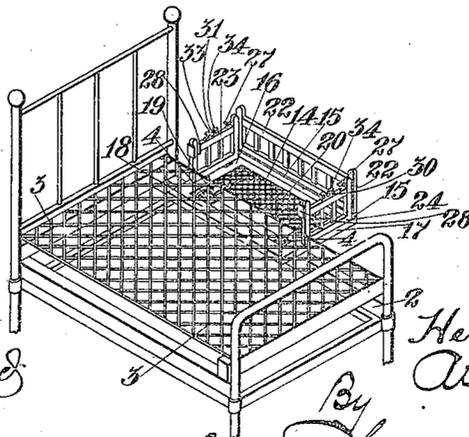


Fig. 9.

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# UNITED STATES PATENT OFFICE.

HENRY AUGUST ATKINSON, OF FITZROY, VICTORIA, AUSTRALIA.

COT FOR ATTACHMENT TO BEDS.

961,669.

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Application filed April 8, 1910. Serial No. 554,129.

*To all whom it may concern:*

Be it known that I, HENRY AUGUST ATKINSON, a subject of the King of Great Britain and Ireland, residing at 45 St. George's road, in the postal district of North Fitzroy, in the city of Fitzroy, a suburb of the city of Melbourne, in the county of Bourke, State of Victoria, Commonwealth of Australia, have invented certain new and useful Improvements in or Relating to Cots for Attachment to Beds, of which the following is a specification.

This invention relates to that class of children's cots which is attached to a bed side and removable therefrom when not required. Various devices have been proposed to temporarily remove from sight cots of this description some being unreliable, difficult to operate, or unsafe for the child.

The object of this invention is to provide a safe, reliable quickly applied or removed manufacture consisting of few, simple, durable parts providing for compact collapsibility and the sliding of the cot beneath the bed mattress out of sight when not in use. In addition this invention permits of a swinging cot or cradle being used therewith and it further may be utilized as a bed table.

Other objects and advantages will be in part obvious and in part pointed out hereafter.

Referring to the drawings which form a part of this specification:—Figure 1 is an isometric view, on an enlarged scale, of a guide and bearer for holding the cot to the bed side and guiding it when being pushed thereunder in its collapsed state. Fig. 2 is an enlarged view of a guide and bearer attached to a side of a bed. Fig. 3 is an enlarged isometric view of a modified guide and bearer. Fig. 4 is an isometric view of this invention, an outer side of the cot, a top end and a bottom end being elevated, and an inner side in position. The guides and bearers are removed. A wire mattress or rest for the cot bed is seen as also is a box swinging cot or cradle. Straps are shown for holding the cot ends and sides erect. Fig. 5 is an enlarged isometric view of an adapter for accommodating a swinging cot, whether of the box or cradle or of the hammock type. Fig. 6 is an isometric view similar to Fig. 4 but showing a hammock suspended within the cot. The wire mattress or rest for the cot bed is removed and

parts broken away for convenience of illustration. One guide and bearer only is shown and bolts are illustrated for holding the cot ends and sides erect. Fig. 7 is an isometric view showing the bottom end depressed and the outer side and top end erect. The inner side and the guides and bearers are removed, as also is the wire mattress or rest for the cot bed. Wing headed thumb screws are shown for holding the cot ends and sides erect. Fig. 8 shows the cot in its collapsed state and ready to act as a table or be thrust under the bed mattress. The guides and bearers and the adapters are removed, as also is the wire mattress or rest for the cot bed. Fig. 9 represents this invention applied to a bed, the outer side and top and bottom ends being elevated. The inner side is removed as also is the swinging cot.

Similar numerals of reference indicate like or corresponding parts where they occur in the several views.

On reference to the drawings it will be seen that 2 is the side of a bed. Above this side is situated a wire or other mattress 3. Between the top of the bed side and the bottom of the mattress is a clear space. Attached to the side 2 are preferably two combination guides and bearers. Each of these consists essentially of a metal strap having a top portion 4, an inside portion 5 and an outside portion 6. Integral with the respective inside and outside portions of each strap are an inside and outside bridge. Each bridge has a top portion 7, and end portions 8 and 9, Fig. 1. Around the top, and inner or outer ends, or any one or more of them, may be tubular rollers 10. There may also be a bottom portion to each bridge around which bottom portion may be a roller. To the metal straps are also attached the upper ends of draw bars 11, the lower ends of which are threaded. Extending between each pair of draw bars is a cross plate 12. Upon the lower threaded end of each draw bar is a nut 13. Instead of each of the bridges having two depending arms there may be but one arm for each bridge piece thereby forming an angled hook as shown in Fig. 3.

With the foregoing is used a sliding foundation frame. This includes an outer member 14. Above this outer member 14 is a longitudinal step 15. To the outer member are attached a head member 16 and a foot member 17, to which latter members is also attached an inner member 18. Between

the outer and inner members extend guide bars 19. These are of such a character that they slide freely through the bridges before referred to. Subsidiary cross bars may also  
 5 extend between the outer and inner members of the foundation frame. Extending between the members of the foundation frame may be situated a wire mattress or other rest 20 for the cot bed.

10 Beneath the outer member 14 of the foundation frame may be hinged if necessary drop legs of any suitable character. These may fold up against the underneath surface of said member when not in use and be attached in such a position by any well known  
 15 means.

To the upper surface of the longitudinal step 15 are attached hinges 21. To these hinges is attached an outer side 22. The  
 20 height of this, as also its design, will depend upon conditions. It is so hinged that it can be lowered only inwardly and downwardly, but will not hinge outwardly. To the head member 16 of the foundation frame by  
 25 hinges 21 is hinged a top end 23. This is so designed that when elevated, it prevents the outer side 22 from falling upon the foundation frame. To the foot member 17 of the foundation frame is hinged by hinges 21 a  
 30 bottom end 24. This also, when elevated, prevents the outer side from falling down upon the foundation frame. The meeting corners of the top and the bottom ends and the outer side may be united by straps 25,  
 35 bolts 26, wing headed thumb screws 27, or any other suitable article. Protruding inwardly from the top end 23 and the bottom end 24 are guide pieces 28. Into these may be dropped an inner side 29.

40 Upstanding above the upper surface of the top end 23 and the bottom end 24 are situated adapters. Each adapter is provided with flanges 30 through which are holes to accommodate bolts, screws, or the like.  
 45 Above the flanges is a neck 31 having rounded sides 32. In the neck is a gullet 33. Outstanding from the top of each side of the gullet is a head 34. The gullets 33 of the adapters are to accommodate trunnions 35  
 50 protruding from a box swinging cot or cradle 36 of any ordinary character. The necks 31 of the adapters are to accommodate loops 37 at the ends of a hammock 38 the rounded sides 32 preventing undue wear  
 55 upon said loops and the heads 34 preventing said loops from accidental removal from the adapters. It will thus be seen that the adapters may accommodate either a box swinging cot or a hammock as desired.

60 Upon the inner surface of the outer side 22 and upon the inner surface of the inner side 29 may be guide pieces within which may be dropped a supplementary end having an adapter thereon. The situation of the  
 65 guide pieces between the ends will depend

upon circumstances, the supplementary end permitting of a shorter swinging cot being used.

To attach this invention to a bed side the combination guides and bearers are placed  
 70 over the said side with their inside and outside portions 5 and 6 at each side thereof. The cross plate 12 of each guide and bearer is then placed over the draw bars 11 and  
 75 tightened up against the lower surface of the side of the bed by the nuts 13. The guide bars 19 passing through the bridges of the guides and bearers retain the cot to the bed.

To erect the cot the outer side 22 is first elevated to a vertical position. The top and  
 80 bottom ends 23 and 24 are then elevated and secured to the outer side by the straps 25, bolts 26, or thumb screws 27. The side and ends are thereby retained in a vertical position. The inner side 29 may also be  
 85 positioned between the guide pieces 28 if the child is to be left alone but its use is optional. The box swinging cot or cradle 36 may be placed in position merely by lowering each of its trunnions 35 into the  
 90 gullet 33 of each of the adapters. Or if a hammock be preferred the loops 37 thereof are each placed around the neck 31 of one of the adapters, the rounded sides of the necks minimizing undue wear and the heads  
 95 34 preventing accidental removal of the loops.

When the cot is not required the swinging cot, if such be used is removed. The inner  
 100 side, if it be used, is removed. The outer side and the ends are disengaged and the said ends lowered upon the foundation frame. The outer side is then lowered upon the said ends. By placing a suitable cover  
 105 or board upon the outer side this invention may, when in this position, be used as a table, blocks or stops if necessary being attached to the foundation frame or the cot ends to preserve its level. If it be desired  
 110 to remove the cot from sight it is only necessary when in its collapsed state to push it into the space between the bed side 2 and the mattress 3, the rollers 10 lessening the friction.

I claim:

115 1. In improvements in or relating to cots for attachment to beds, a sliding foundation frame, a cot outer side and cot ends hinged to said foundation frame and folding thereupon, guide pieces protruding inwardly  
 120 from said ends, an inner side accommodated by said guide pieces, means for holding said foundation frame to the bed.

2. In improvements in or relating to cots for attachment to beds, a sliding foundation  
 125 frame, a cot outer side and cot ends hinged to said frame, guide pieces protruding inwardly from said ends, an inner side accommodated by said guide pieces, means upstanding above each of said ends for ac- 130

commodating a swinging holder within said sides and ends.

3. In improvements in or relating to cots for attachment to beds, a sliding foundation frame having guide bars, a guide and bearer accommodating each of said bars, each guide and bearer consisting of a metal strap above which are bridges with means for holding said metal strap to the side of the bed, a cot side and ends hinged to said foundation frame and folding thereupon.

4. In improvements in or relating to cots for attachment to beds, a sliding foundation frame having guide bars, a guide and bearer accommodating each of said bars, each guide and bearer consisting of a metal strap above which are bridges with means for holding said metal strap to the side of the bed, a cot side and ends hinged to said foundation frame and folding thereupon, an adapter upstanding above each of said ends, each adapter consisting of a neck having a gullet therein, a swinging cot accommodated by said adapters.

5. In improvements in or relating to cots for attachment to beds, a sliding foundation frame having guide bars, a guide and bearer accommodating each of said bars, each guide and bearer consisting of a metal strap above which are bridges with means for holding said metal strap to the side of the bed, a cot side and ends hinged to said foundation frame and folding thereupon, guide pieces protruding inwardly from said ends, an inner side accommodated by said guide pieces, an adapter upstanding above each of said ends, each adapter consisting of a neck having a gullet therein, a swinging cot accommodated by said adapters.

6. In improvements, in or relating to cots for attachment to beds, a guide and bearer consisting of a metal strap integral with which are bridges having rollers, draw bars attached to said strap, a cross plate extending between said draw bars, a nut upon each draw bar beneath said plate, a guide bar accommodated by said bridges, a sliding foundation frame attached to said guide bar, a cot outer side and cot ends hinged to said frame and folding thereupon.

7. In improvements in or relating to cots for attachment to beds, a guide and bearer consisting of a metal strap integral with

which are bridges having rollers, draw bars attached to said strap, a cross plate extending between said draw bars, a nut upon each draw bar beneath said plate, a guide bar accommodated by said bridges, a sliding foundation frame attached to said guide bar, a cot outer side and cot ends hinged to said frame and folding thereupon, guide pieces protruding inwardly from said ends, an inner side accommodated by said guide pieces.

8. In improvements in or relating to cots for attachment to beds, a guide and bearer consisting of a metal strap integral with which are bridges having rollers, draw bars attached to said strap, a cross plate extending between said draw bars, a nut upon each draw bar beneath said plate, a guide bar accommodated by said bridges, a sliding foundation frame attached to said guide bar, a cot outer side and cot ends hinged to said frame and folding thereupon, means for holding said side and ends in a vertical position, an adapter upstanding above each of said ends, each said adapter comprising a neck having a gullet therein and a head outstanding from each side of the gullet, a swinging cot accommodated by said adapters.

9. In improvements in or relating to cots for attachment to beds, a guide and bearer consisting of a metal strap integral with which are bridges having rollers, draw bars attached to said strap, a cross plate extending between said draw bars, a nut upon each draw bar beneath said plate, a guide bar accommodated by said bridges, a sliding foundation frame attached to said guide bar, a cot outer side and cot ends hinged to said frame and folding thereupon, guide pieces protruding inwardly from said ends, an inner side accommodated by said guide pieces, an adapter upstanding above each of said ends, each said adapter comprising a neck having a gullet therein and a head outstanding from each side of the gullet, a swinging cot accommodated by said adapters.

In testimony whereof I affix my signature in the presence of two subscribing witnesses.

HENRY AUGUST ATKINSON.

Witnesses:

EDWIN PHILLIPS,  
ALAN MCEACHEN.