K. D. PIERCE.

BED ATTACHMENT.

APPLICATION FILED JAN. 13, 1913.

1,067,060.

Patented July 8, 1913.

3 SHEETS—SHEET 1.

Fig. 1.

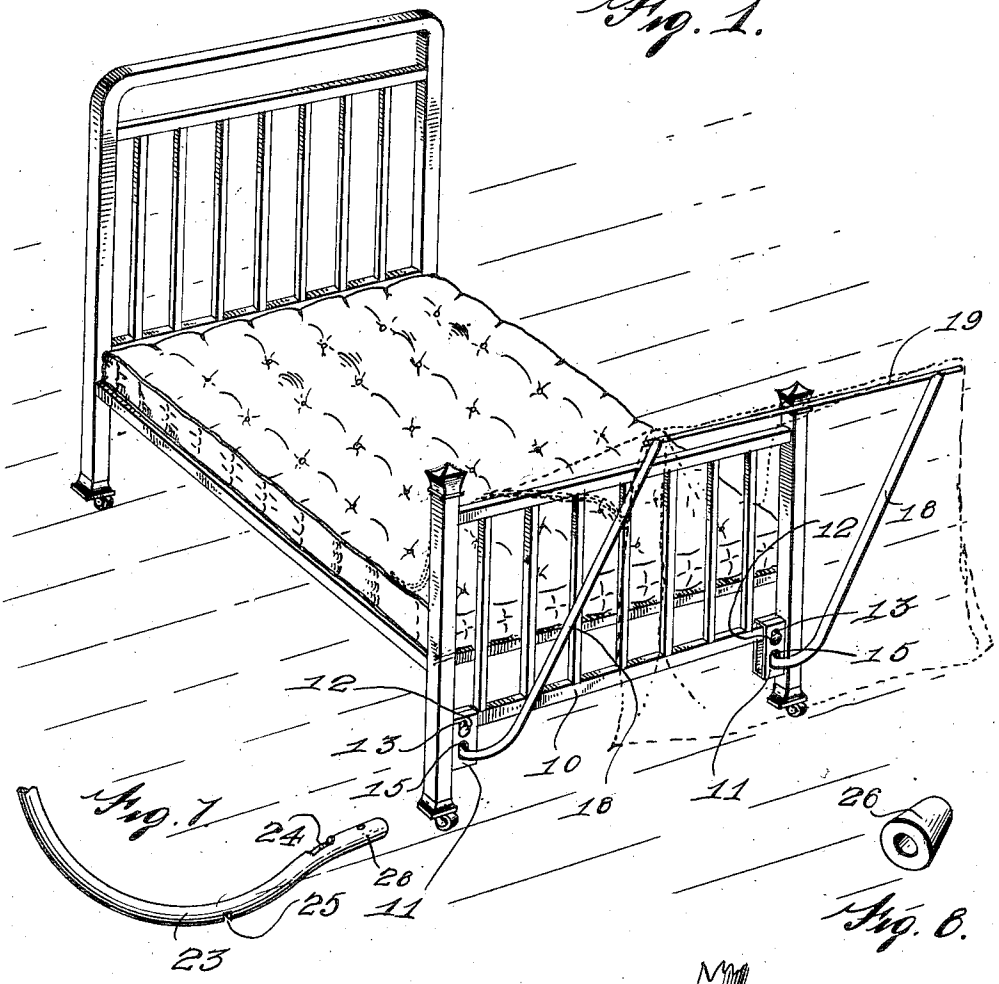
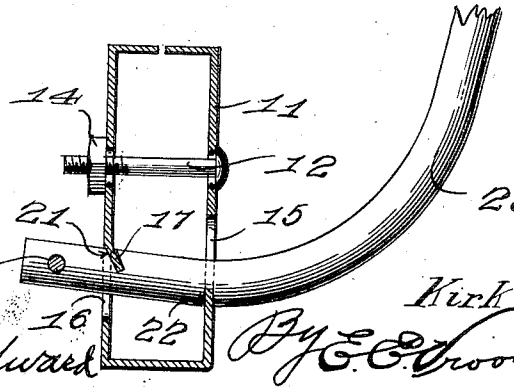


Fig. 5



WITNESSES

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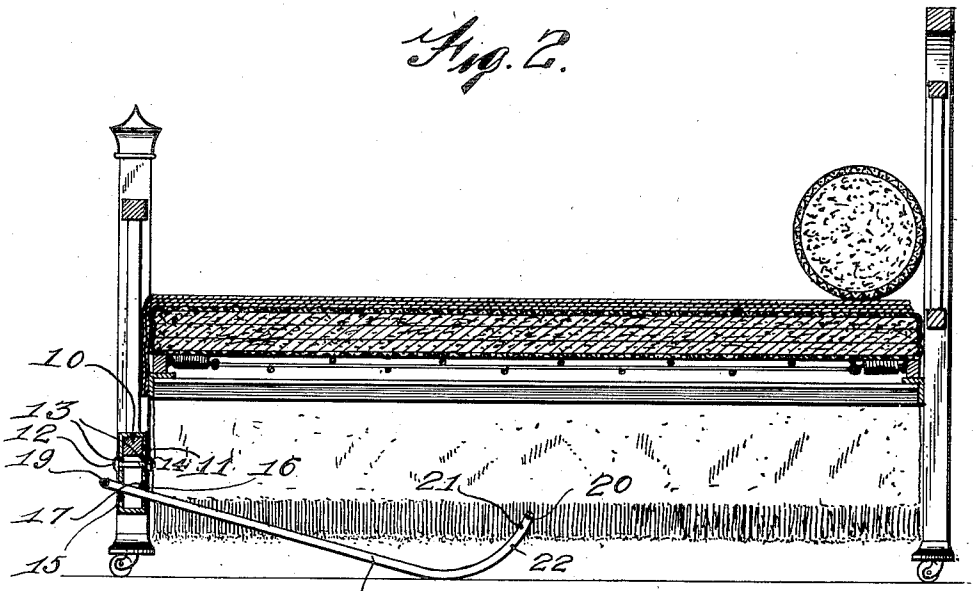
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3 SHEETS—SHEET 2.

Fig. 2.



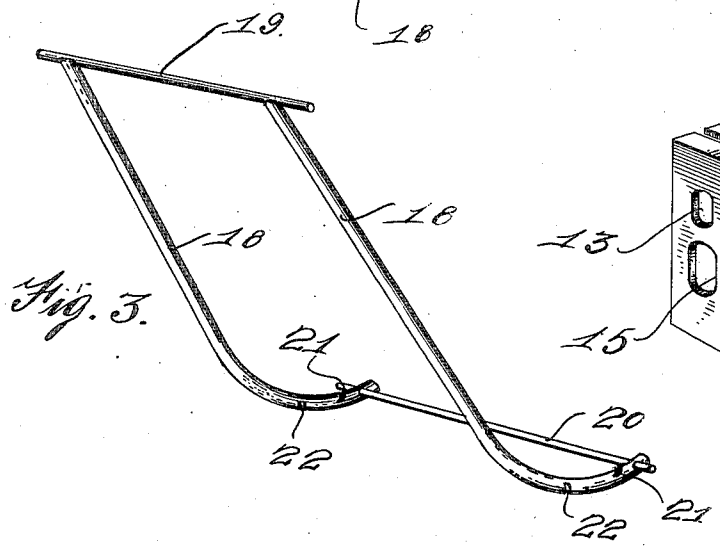


Fig. 3.

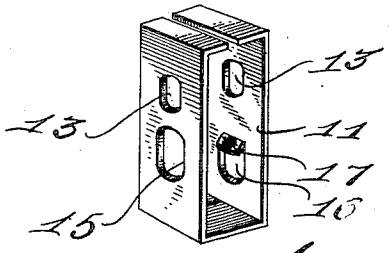


Fig. 4.

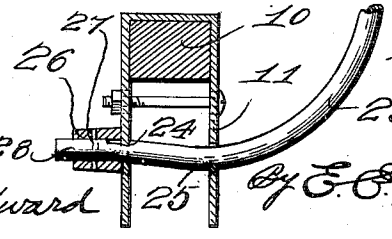


Fig. 6.

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3 SHEETS—SHEET 3.

Fig. 9.

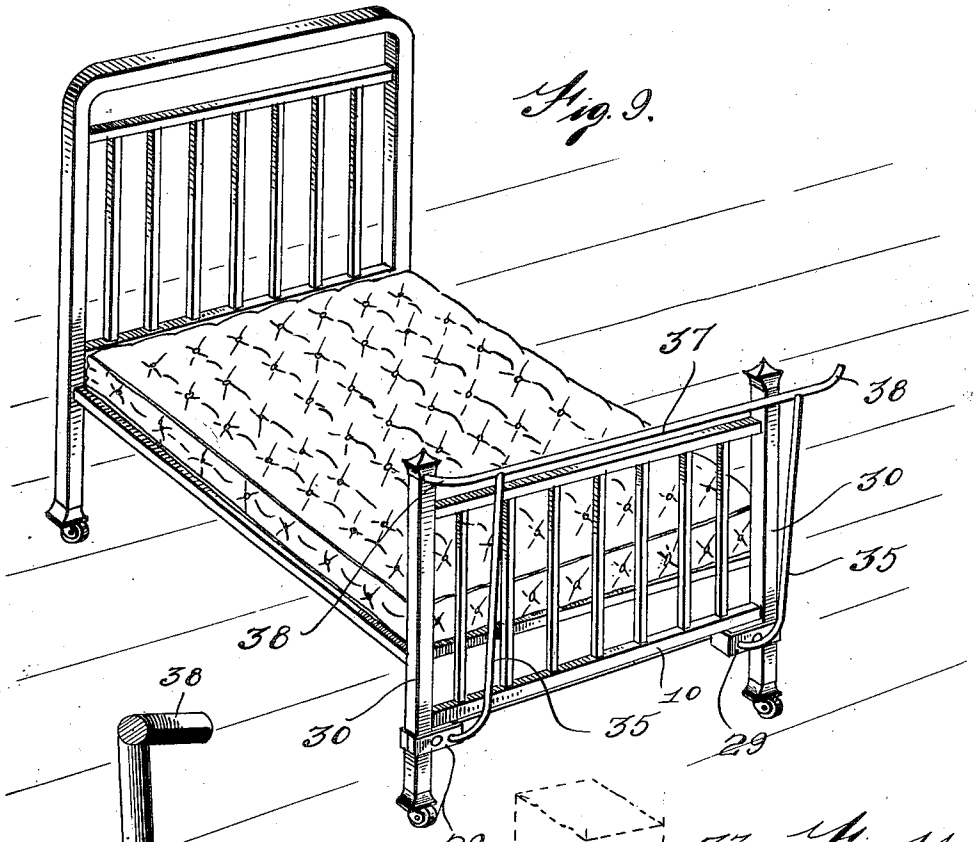


Fig. 11.

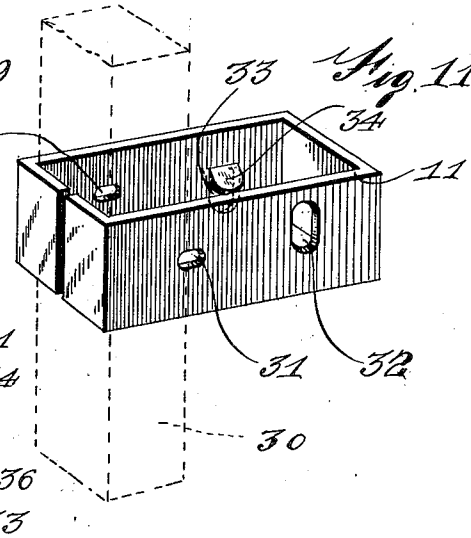
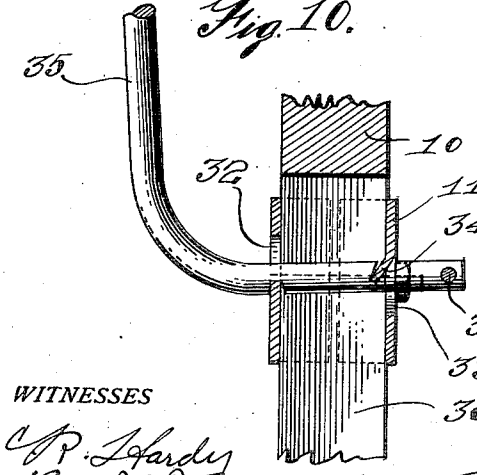


Fig. 10.



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UNITED STATES PATENT OFFICE.

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BED ATTACHMENT.

1,067,060. Specification of Letters Patent. Patented July 8, 1913.

Application filed January 13, 1913. Serial No. 741,853.

To all whom it may concern:

Be it known that I, KIRK D. PIERCE, citizen of the United States, residing at Hillsboro, in the county of Hillsboro and State of New Hampshire, have invented certain new and useful Improvements in Bed Attachments, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a device which is intended to be connected with a bed so that the coverings may be thoroughly aired in the morning.

The principal object of this invention is to provide a device of the character described which may be easily moved to a suitable position when it is desired to use the same.

Another object of this invention is to provide a device which may be slipped beneath the bed when not in use.

Another object of this invention is to provide an improved type of bracket for removably connecting the device with the bed, and which is so constructed that the sliding arms may be securely held in a raised position.

With these and other objects in view, this invention consists of certain novel constructions, combinations and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a perspective view of a bed showing the device in the raised position. Fig. 2 is a longitudinal sectional view through a bed showing the device placed beneath the bed. Fig. 3 is a perspective view of the device. Fig. 4 is a perspective view of one of the brackets used in connection with this device. Fig. 5 is an enlarged view showing the securing bracket in section and showing the manner in which the bracket engages the sliding arms to hold the same in a raised position. Fig. 6 is a view similar to Fig. 5 showing a modified form of the sliding arm. Fig. 7 is a perspective view of the lower end portion of the sliding arm shown in Fig. 6. Fig. 8 is a perspective view of the collar mounted upon the inner end of the sliding arm shown in Fig. 6. Fig. 9 is a perspective view of a bed provided with a slightly modified form of the device. Fig. 10 is a vertical sectional view through the device shown in Fig. 9. Fig. 11 is a perspective view of the bracket used in Fig. 9.

By referring to the accompanying drawings, it will be seen that this invention is used in connection with a bed which may be of any desired type but which in the form shown in Fig. 1 must be provided with a lower rail 10 at the foot so that the brackets 11 may be removably connected with the bed by having the arms placed upon opposite sides of the rail 10 and the adjusting bolt 12 then tightened so that the bracket will be securely clamped to the rail. This bolt 12 passes through openings 13 formed in the bracket and has a nut 14 screwed upon its inner end to tighten the bracket about the rail, as above described. Openings 15 and 16 are formed in the arms of the bracket, the opening 15 being formed in the forward arm and positioned nearer the bolt 12 than the opening 16, as will be clearly seen from an inspection of Fig. 5. A tongue 17 extends from the upper edge of the opening 16 into the space between the arms of the bracket and is intended to fit into a slot formed in the sliding arm which will be hereinafter described. When it is desired to remove this device from the bed, the nut 14 may be removed and the bolt 12 can then be withdrawn thus permitting the bracket to be disconnected from the bed without it being necessary to remove the bracket from the sliding arm. These sliding arms 18 have their outer ends connected by a cross rod 19 which is connected with the upper ends of the arms 18 and the inner end portions of the sliding arms are curved and connected by a cross rod 20 which also extends through and beyond the sliding arms. The curved portions of these sliding arms are provided with upper and lower slots 21 and 22 which are so located that when the arms are drawn outwardly to the position shown in Fig. 1, the tongue 17 will fit into the sloping slot 21, and the forward arm of the bracket will fit

into the slot 20. The arms will then be held in a raised position and since the tongue 17 extends diagonally into the diagonal slot 21, there will be less danger of the arms slipping loose when the weight is placed upon the outer ends of the arms. When this device is not in use it is easily moved to the position shown in Fig. 2 with the lower end portions of the sliding arms resting upon the floor underneath the bed. When it is desired to remove the bed coverings at night, or to air the bed coverings in the morning, the cross rod 19 is grasped between the arms 18 and the arms are drawn outwardly and upwardly to the position shown in Fig. 1. The bed coverings can be then thrown over the foot of the bed and will be supported by the device thus permitting them to be thoroughly aired, but prevented from falling upon the floor.

In Figs. 6, 7, and 8, there has been shown a slightly modified form of sliding arm. The arms 23 in this form are provided with the curved lower end portions the same as in the form shown in Fig. 3 and are provided with the cut-out portions 24 and 25. A collar 26 is placed upon the ends of each of the sliding arms and is held in place by any suitable means, such for instance, as the pin 27. It is, of course, obvious that any other desired means may be used for securing the collar in place or that, if desired, the collar may be threaded onto the end of the arm. When this type of arm is used, the tongue 17 is also omitted and when the arms are drawn to the raised position the inner arm of the bracket fits into the notch 24 and is held in place by the collar 26 as clearly shown in Fig. 6. It should also be noted that the inner end portion 28 of the arm 23 is carried at an angle to the notch in the curved lower portion so that the arms will thereby be securely locked or held in the raised position.

In Figs. 9, 10, and 11 there has been shown a slightly modified form of the device. In this form the brackets 29 are connected with the posts 30 of the bed instead of the cross bar 10. The brackets are also of a slightly different construction since the openings 31, 32 and 33 are so formed that the brackets may be connected to extend horizontally instead of vertically. The tongue 34 extends from the edge of the opening 33 near the side of the bracket instead of the edge near the end. The sliding arms 35 are similar in construction to the arms 18 and have their inner ends connected by a cross rod 36 and their outer ends by the supporting rod 37 which has its end portions 38 curved as shown in Fig. 9 to pass around the bed posts 30, thus supporting the side portions of the bed-spread and preventing any danger of the side portions dragging on the floor where it will be soiled and where it is liable to be greasy if the floors are oiled. The operation of this form is similar to the form shown in Fig. 1 so that the description of the operation is unnecessary.

What is claimed as new, is:—

1. A device of the character described comprising a frame, and means for slidably connecting said frame with a bed whereby the frame may be slid beneath the bed and drawn out and supported in a substantially vertical position.

2. In a device of the character described a frame having sliding bars, and means carried by said sliding bars for slidably connecting said frame with a bed whereby the frame may be positioned beneath the bed and drawn out and held in a raised position.

3. In a device of the character described a frame having side bars provided with curved lower end portions, and means mounted upon the side arms for slidably connecting said device with a bed and adapted to engage the curved lower end portions of the side arms for holding said device in an extended position.

4. A device of the character described comprising a frame having side arms, brackets adapted to be removably connected with a bed and provided with openings through which said side arms pass, said side arms being provided with slots adjacent their inner ends in which said brackets are adapted to fit for holding said device in an extended position.

5. A device of the character described comprising a frame having side arms provided with curved inner end portions, brackets adapted to be removably connected with a bed and having their arms provided with openings through which the side arms of said frame pass, and tongues struck from said brackets and adapted to fit into slots formed in said side arms for holding said frame in an extended position.

6. A device of the character described comprising a frame having side arms having curved inner end portions and being provided with slots adjacent their inner ends, brackets mounted upon said side arms and adapted to be removably connected with a bed, tongues carried by said brackets and adapted to fit into said slots for holding said device in an extended position, a cross rod connecting the outer end portions of said side arms, and a cross rod connecting the inner end portions of said side arms.

7. A device of the character described comprising a frame having side arms, means for slidably and removably connecting said side arms with a bed, said arms being adapted to be drawn outwardly through said

connecting means from beneath the bed to a substantially vertical position, means for holding the frame in a vertical position, and a cross bar connecting the outer end portions of said side arms and having its end portions curved to extend toward the bed when said frame is in a raised position.

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

KIRK D. PIERCE.

Witnesses:
GWENDOLYN PARKER,
RALPH G. SMITH.