

2 Sheets—Sheet 1.

No. 372,288.

Patented Nov. 1, 1887.



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James B. Paddon

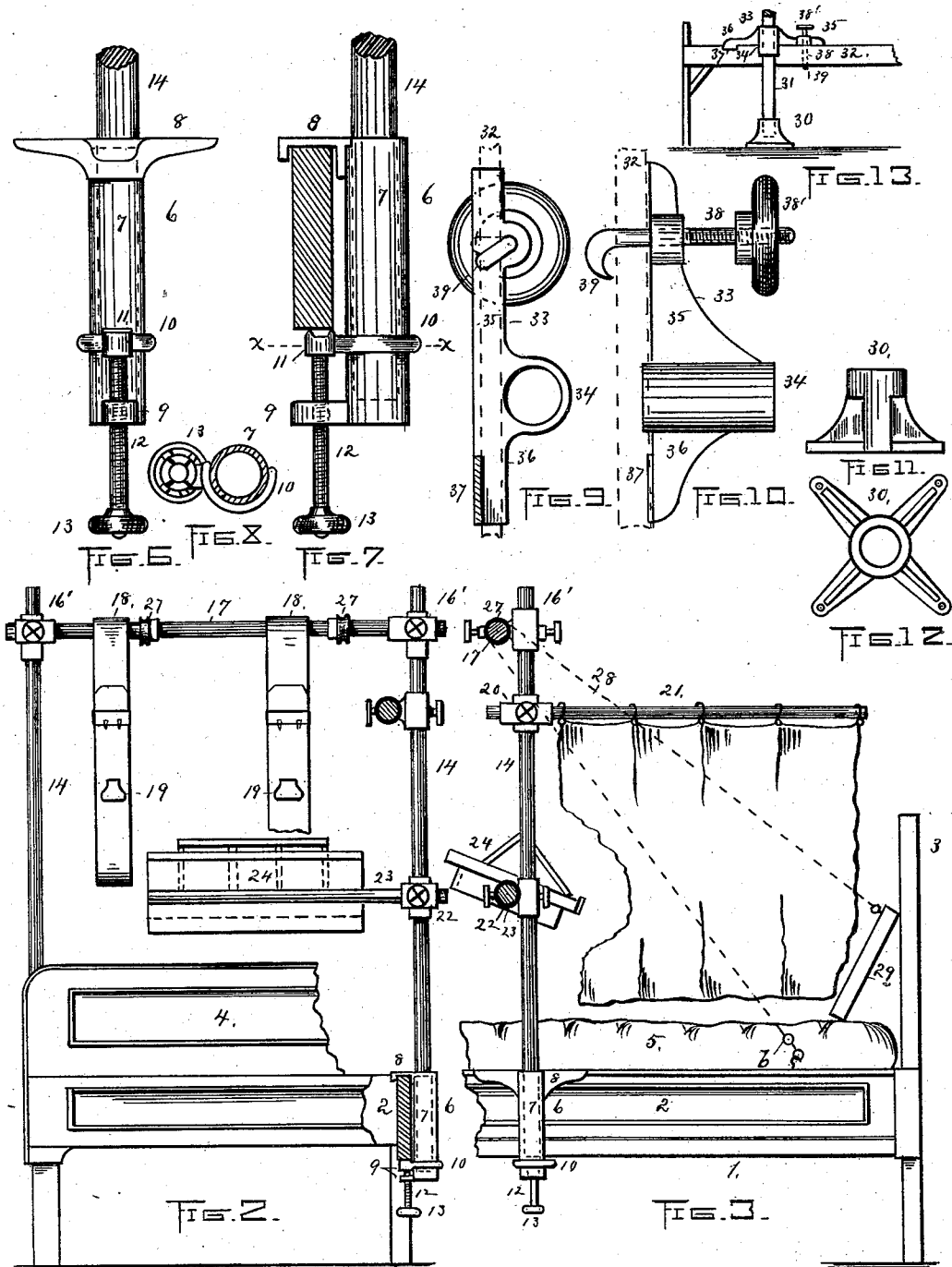
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2 Sheets—Sheet 2.

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Patented Nov. 1, 1887.



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# UNITED STATES PATENT OFFICE.

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## ATTACHMENT FOR BEDS FOR INVALIDS.

SPECIFICATION forming part of Letters Patent No. 372,288, dated November 1, 1887.

Application filed April 7, 1887. Serial No. 234,073. (No model.)

*To all whom it may concern:*

Be it known that I, HANNAH C. BAILEY, a citizen of the United States of America, residing at the city of Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Attachments for Beds for Invalids, of which the following is a specification, reference being had therein to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to an improvement in attachments for beds or couches for the purpose of affording relief and comfort to persons confined to a bed, either from accident, sickness, or other causes.

My invention consists of the construction and combination of parts, as will be more particularly hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of an ordinary bed, showing my improved attachments thereto. Fig. 2 is a view looking at the foot of an ordinary wooden bed, a portion of the back broken away, showing a section of one of the side bars. Fig. 3 is a side view of a portion of the bed, showing the head-rest. Figs. 4 and 5 are the front and top views of the adjustable ferrules. These ferrules can either be made of wood, metal, or any other suitable substance. Figs. 6 and 7 are front and side views of an adjustable clamp for fastening my improved attachments to ordinary beds or couches. Fig. 8 is a cross-section on lines X X, Fig. 7. Figs. 9 and 10 are top and side views of a clamp for metal bedsteads. Figs. 11 and 12 are top and side views of a standard for retaining the poles or rods to an ordinary metal bedstead. Fig. 13 is a side elevation of a portion of a metal bedstead, showing the method of attaching the clamp, pole, and standard. Figs. 14 and 15 are end and side views of my improved arm and leg rest. Figs. 16 and 17 are side and top views of my improved table, book-rack, and drawers.

In the drawings, 1 represents an ordinary wooden bedstead.

2 2 are the side bars, 3 the head of the bed, and 4 the foot.

5 is the mattress.

6 is a clamp for beds or couches. I construct this clamp of wood, metal, or any other substance. The socket 7 has projecting lugs 8 and 9. About one-third around the socket a ring, 10, is fitted loosely. On the other end of the ring 10 a lug is cast having a hub, 11. Fastened to the hub, so as to allow it to revolve, is a screw, 12, and said screw passes through lug 9, which forms a nut, and by means of the hand-wheel 13 the screw is turned up or down, which tightens the clamp 6 on the side bar of the bed.

The hub 11 is notched on the top to allow it to engage the under side of the side bar, 2, which prevents it from slipping when the screw is tightened. One or more of these clamps can be used.

I provide turned (metal or wooden) rods or poles 14 14, turned to fit in socket 7 of the clamp 6. At different places on the rods or poles I fasten the adjustable ferrule 15, Figs. 4 and 5, by means of the screw 16. Each ferrule consists of two tubular sections rigidly connected at right angles, and each section is pivoted with a set-screw, 16, by which it may be clamped to a rod passing through it. On the upper ends of the rods or poles 14 14, I place the ferrules 16' 16', and secure in the outer section of these ferrules, by means of the set-screws 16, the horizontal rod or pole 17.

I provide one or more straps, 18 18, made of webbing, leather, or any other suitable substance. These straps are shown in Figs. 1 and 2, and are suspended on rod or pole 17, and can be constructed either by fastening the ends together by means of a buckle or can be riveted or sewed together, forming one continuous piece. I also provide one or more handles, 19 19. Said handles are fastened to the strap at different points to enable the invalid to raise himself up from the pillow. The invalid can also, by means of the straps and handles, move himself from side to side. By this construction it will be seen that the rod or pole 17 can be adjusted to various heights on the standards, and thus the straps 18 18 be brought into a position to be readily grasped by the invalid.

I provide on standard 14 the ferrule 20, which is essentially the same as that already described, Figs. 1 and 3; and through one sec-

tion thereof I pass the end of a rod or pole, 21, to which is hung a curtain or shade, *b*, by means of ordinary hooks or rings. This curtain serves the purpose of a screen to shade the invalid from strong light and keep the same from the table when the latter is in use. By being held in the adjustable ferrule 20, the rod 21 and the curtain can be readily adjusted either horizontally or vertically, to suit the wants of the invalid. Below the ferrule 20, and on the rod or pole 14, I place a ferrule, 22, upon which is fixed a rod or pole, 23, (one or more can be used,) and upon said rod or pole 23 a desk, table, book-rack, and drawers 24 are fastened. These can be moved in or out and placed at any angle to suit the wishes of the invalid by means of the sleeve-connection by which the desk is attached to the rod 23, as clearly shown by Fig. 16, and, further, by the ferrule on standard 14. I also provide ferrule 25 and rod or pole 26, Fig. 1, fixed to upright rod or pole 14, and upon this rod or pole 26 an arm or leg rest is fixed. This arm or leg rest is adjusted on the rod or pole 26 by means of socket *a*, Figs. 14 and 15, thumb screw or nut *c*, and bolt or pin *f*. The arm or leg rest works loosely on the bolt *f*, which enables the invalid to move his arm or leg from side to side. One or more of these can be used without interfering with the spirit of my invention.

All the above—ferrules, rods or poles, table, desk, arm or leg rest, and curtain-holder—can be raised or lowered and turned from side to side, and can be readily applied to any bed or couch in one or more parts, or the whole. I also provide one or more sheaves or pulleys, 27 27, placed on cross rod or pole 17. Over these sheaves or pulleys cords or chains 28 28 are placed. The other ends of the cords or chains are fastened to the head-support or pillow-brace 29. The ends of these cords or chains can either be fixed with hooks or rings *b*, to enable the invalid or nurse to adjust the pillow at any angle. Hooks or any suitable means can be employed to fasten these ends to the bed or couch, so as to retain the pillow-holder at any desired position. The advantage of this construction is that the invalid is enabled to readily adjust the head-rest to suit his own pleasure by simply unhooking the end of the cords 28 from the side rail and pulling thereon. I also provide clamping devices.

Figs. 9, 10, 11, 12, and 13 show the parts which can be attached to a metal bedstead.

30 represents a metal socket or standard, which is placed on the floor.

31, Fig. 13, is a pole or rod similar to those used on a bed or couch. Said rod fits into the standard, as shown in the drawings.

32 represents a portion of a side of a metal bed.

33 shows the clamping device. This device is made of metal having a hub, 34, which is bored out to receive the rod or pole 31.

Cast to this hub, and forming part of it, are two ribs, 35 and 36. Upon the lower side of rib 36 a lip, 37, projects. Upon the rib 35 a boss is formed, which is bored out, forming a bearing for the screw 38. Upon the lower end of this screw a hook, 39, is formed, and upon the upper end of the screw 38 a nut, 38', is shown. The dotted lines shown in Figs. 9 and 10, and marked 32 32, represent a portion of a metal bed.

The outer side of the bed rests against lip 37. The hook 39 is then passed over the side bar of the bed, and the nut 38' on screw 36 is screwed up until the hook engages the side bar, 32, and the nut is pressed against the hub.

It will be seen from the above that the various rods and connected parts can easily be removed or attached to any ordinary bed, as desired.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a bed or couch, of clamps attached to the side rails thereof, standards held in said clamps and provided near their upper ends with ferrules adjustable longitudinally thereof, a pole or rod held in said ferrules and connecting the standards, and a strap on said rod or pole provided with handles, substantially as and for the purpose specified.

2. The combination, with a bed or couch, of a clamp attached to the side rails thereof, a standard held in said clamp, a ferrule adjustable longitudinally on said standard and carrying a rod and adapted to be swung and held in a horizontal plane, and a curtain attached to said rod, substantially as and for the purpose specified.

3. The combination, with a bed or couch, of a clamp attached to the side rail thereof, a standard held in said clamp and provided with a ferrule adjustable longitudinally on said standard and adapted to be swung in a horizontal plane, and a rod or pole held in said ferrule and provided with an arm or leg rest adapted to slide longitudinally on said rod or pole, substantially as and for the purpose described.

4. The combination of a standard attached to the side rail of a bedstead, a rod carried thereby, a socket, *a*, adjustable longitudinally thereof and provided with a set-screw, *c*, and pin *f*, and an arm and leg rest carried loosely by said pin, whereby said rest may be moved longitudinally on said rod and turned horizontally at any angle, substantially as described.

5. The combination, with a bed or couch provided with a head-support, of standards attached to the side rails thereof, a rod or pole connecting said standards near their upper ends and provided with pulleys, and cords 28 28, attached at one end to said head-support and passing over said pulleys and provided at the other end with hooks or rings, whereby it

may be attached to the side rails of the bed to adjust the head-support at varying angles, substantially as described.

6. The combination, with a bed or couch, of standards attached to the side rails thereof and provided with ferrules, rod 21, provided with a curtain and held by one of said ferrules, and a rod, 23, provided with a book-rack or desk and carried by the other of said ferrules, both of said rods adapted to be moved both

horizontally and vertically and to adjust the book-rack or desk and curtain, as and for the purpose specified.

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

HANNAH C. BAILEY.

Witnesses:

PIERREPONT BARTOW,  
JAMES B. PADDON.