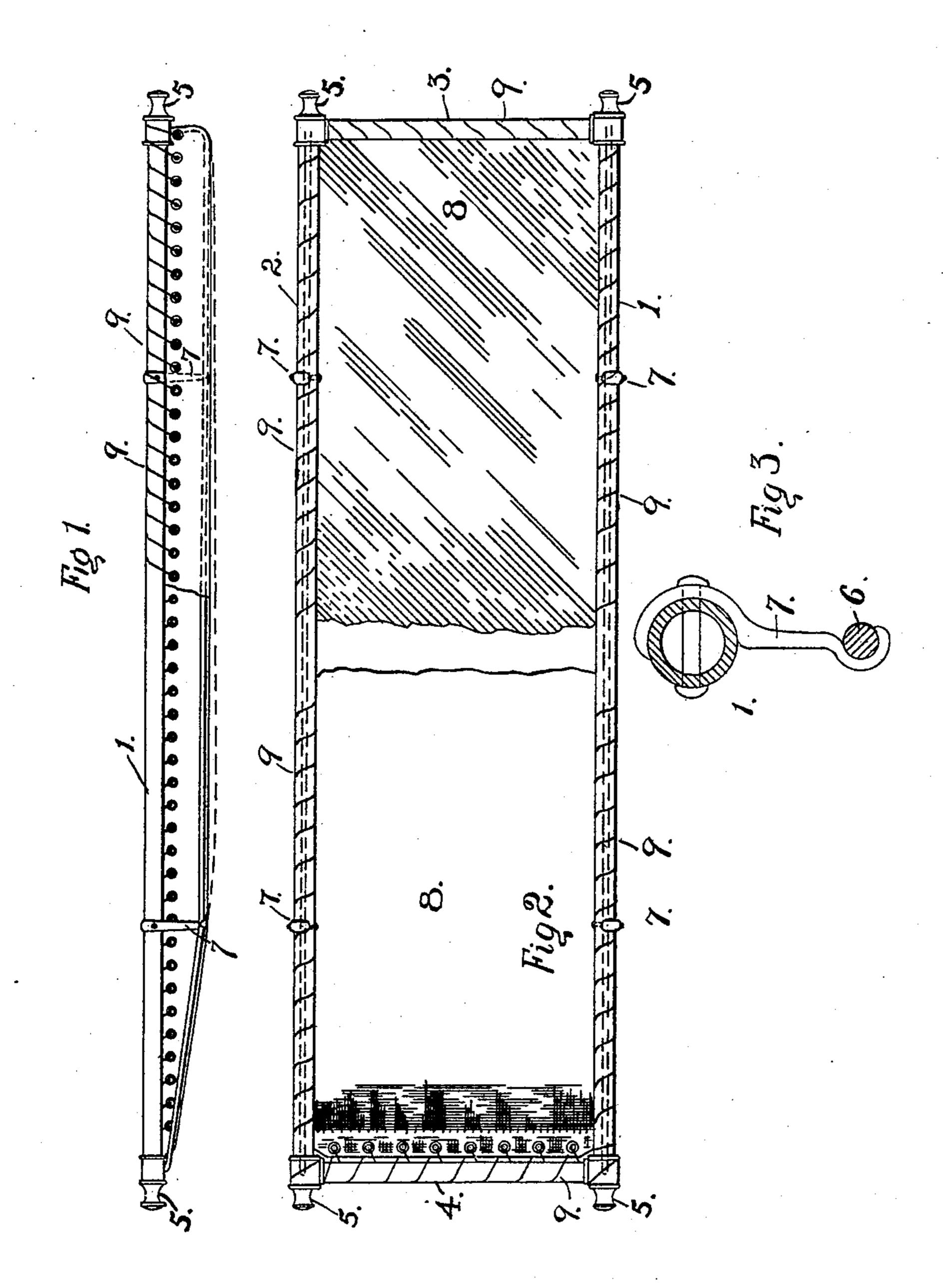
## J. P. LEIN. BED BOTTOM.

(Application filed Nov. 23, 1898.)

(No Model.)



Witnesses Les. 77. Hess. Martin allyan John P. Lein Inventor
By his Attorney C. Edwards.

## United States Patent Office.

JOHN P. LEIN, OF NEW YORK, N. Y.

## BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 631,799, dated August 29, 1899.

Application filed November 23, 1898. Serial No. 697, 258. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. LEIN, a citizen of the United States, residing at New York, in the county of New York and State of New 5 York, have invented certain new and useful Improvements in Bed-Bottoms, of which the following is a full, clear, and exact specification.

My invention relates to bed-bottoms, and to is particularly adapted for use in connection with beds, berths, or bunks where it is desirable to remove or fold up the bed-bottom. It is further adapted for use in places where the frame of the bed-bottom must also serve as 15 the bed-frame—as, for instance, in transports, where a suitable rack or support is provided in which the bed-bottom rests and forms the bed. In such beds it is desirable that an upright side should be formed at each side of the bed to aid in disposing of the bedclothes or to retain the mattress in place; but such side should be capable of supporting the weight of the bed and of withstanding sudden strains—as, for instance, when the occu-25 pant grasps the sides to swing himself into the bed, as is the case where the bed is an upper berth in a transport.

The object of my invention, therefore, is to construct a bed-bottom which shall be ca-30 pable of performing the function of a bedframe and also one which shall be provided with strong sides of simple and economical construction.

The invention will be more particularly de-35 scribed with reference to the accompanying drawings, in which—

Figure 1 is a side view of a bed-bottom embodying my invention. Fig. 2 is a plan view of Fig. 1, and Fig. 3 is a detail sectional view 40 of one of the braces.

In the drawings, 1 and 2 represent the side bars of the bed-bottom, and 3 and 4 represent the end bars. The frame thus formed may be of any suitable material, construction, 45 or form, according to the use to which the bed-bottom is to be put or the place where it is to be used. I prefer that the side bars shall be constructed of stout piping for reasons of convenience and economy. This 50 frame may be supported in any convenient

is usual in fitting out transports to provide suitable supports along the places where the berths are to be located, and in these supports extensions 5 on the bed-bottom rest. 55 Although I have shown such extensons in the drawings, it is to be understood that the bedbottom herein shown and described may be supported in any desired manner to the support or the bedstead.

Below the side rails and in ordinary cases directly beneath and in line with the same a distance substantially equal to the desired depth of the bed-bottom are auxiliary rails 6 6, attached to the frame and braced from the 65 inside by suitable braces 7.7, carried by the

side bars.

The fabric 8, which may be of canvas, woven wire, or other material, is attached to the auxiliary rails 6 or to the side rails 1 and 70 2, preferably, however, to the latter, as they should be made sufficiently strong to bear all the weight to be put upon the bed and will therefore be strong enough to bear the weight put upon the fabric, whereas if the fabric 75 were attached directly to the auxiliary rail it would be necessary to make the latter heavier than would ordinarily be necessary. I prefer the construction shown, wherein the fabric is stretched over the outside of the aux- 80 iliary rails and attached to the frame. The method of fastening is immaterial. A cord 9 may be used, as shown in the drawings, or other means may be employed. I have shown the fabric cut away in Fig. 2 of the drawings 85 to illustrate that different kinds of material may be used for the fabric, the drawing representing a canvas fabric at one end and a woven-wire fabric at the other.

In operation the frame is placed in its sup- 90 port and the bed made in the usual manner, the mattress being supported upon the fabric and ordinarily being of about the same thickness as the depth of the bed-bottom. With this construction the bed-bottom will be able 95 to stand the strain to which these beds are generally subjected by reason of the occupants swinging themselves in by grasping the side rail.

The auxiliary rails are preferably bent up- 100 ward near one end of the bed-bottom and tamanner upon a bedstead or other support. It | pered toward the end where they join the

side rails or other part of the frame substantially in the same plane as the end of the bedbottom. When the auxiliary rails are so bent and the fabric is stretched across them, a con-5 venient pillow portion is formed. This feature is of great practical advantage, especially in view of the fact that these bed-bottoms are designed for use in transports for soldiers, &c., and when put to such use mat-10 tresses are seldom used. Usually the bedding consists of a blanket, in which the occupant is wrapped, and by turning up the bottom in the way just described a pillow is formed without being built up inside and 15 without interfering in any way with the use of the bed-bottom. It will be seen that the weight of the occupant will tend to stretch the fabric to the position shown in dotted lines in Fig. 1 and therefore to preserve the

Having thus described my invention, I de-

20 shape of the pillow portion.

clare that what I claim as new, and desire to secure by Letters Patent, is—

In a bed-bottom, the combination of a heavy frame, extensions carried thereby and adapted to be supported on a support, auxiliary side rails of lighter material than the frame located immediately below the side rails of the frame, and a fabric attached to the sides and ends of the frame and stretched over said auxiliary rails to form the bottom and side walls of the bed-bottom, the said auxiliary side rails being tapered from a point near the end of the bed to said end to form a pillow portion, substantially as described.

In testimony whereof I affix my signature

in presence of two witnesses.

JOHN P. LEIN.

Witnesses:

C. V. EDWARDS, W. IRVINE.