(No Model.)

J. & F. H. W. LIVESEY.

REVERSIBLE SEAT OR BED FRAME.

No. 324,129. Patented Aug. 11, 1885.

Fig. 1.

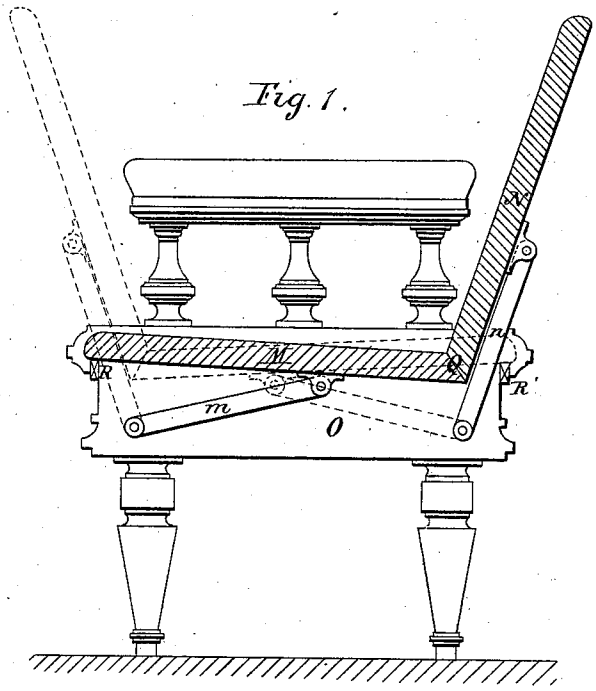


Fig. 3

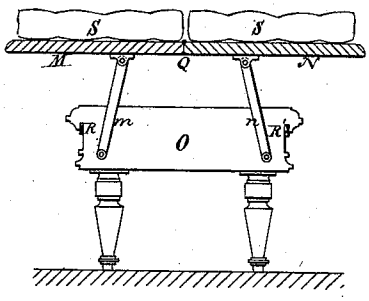
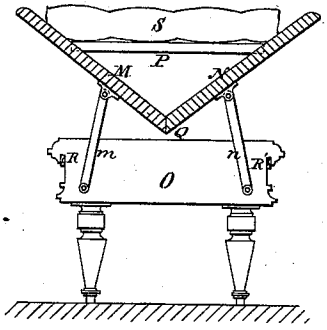


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

JAMES LIVESEY AND FERNANDO HARRY WHITEHEAD LIVESEY, OF VICTORIA MANSIONS, WESTMINSTER, COUNTY OF MIDDLESEX, ENGLAND.

REVERSIBLE SEAT OR BED FRAME.

SPECIFICATION forming part of Letters Patent No. 324,129, dated August 11, 1885.

Application filed April 22, 1885. (No model.) Patented in England December 13, 1833, No. 5,728.

To all whom it may concern:

Be it known that we, JAMES LIVESEY and FERNANDO HARRY WHITEHEAD LIVESEY, citizens of England, both residing at Victoria Mansions, Westminster, county of Middlesex, England, have invented a new and useful Reversible Seat or Bed Frame, (for which we have obtained a patent in Great Britain, No. 5,728, dated December 13, 1883,) of which the following is a specification.

Our invention relates to a construction of reversible seats particularly applicable in railway-carriages, but applicable, also, in other places where it is desirable that the sitters should be able to face either way, this construction, moreover, being such that the seat can be employed as the framing of a couch, bed, or sleeping-berth, as we will describe, referring to the accompanying drawings.

Figure 1 is a transverse section of the seat and back with elevation of one end frame. Fig. 2 shows, to a reduced scale, the seat adapted to receive a mattress, so as to form a couch, bed, or sleeping-place; and Fig. 3 shows a modification for this purpose.

The seat M and back N are equal and symmetrical, joined together at the angle Q, which is preferably greater than a right angle, so as to give suitable slope and inclination. To the parts M and N are jointed the ends of equal radius-rods *m* and *n*, the other ends of which are pivoted on the end framings, O. As shown in Fig. 1, the front edge of the seat M rests on a stationary lath or stop, R, which is fixed to the framing, and the sitter will face toward the left. By raising the seat and back and swinging them on the radii *m n* the attitude can be reversed, as indicated by the dotted lines N, then forming the seat and resting on R′, while M then forms the back.

By raising the seat and back to the position shown in Fig. 2, and placing between them transverse laths or bearers P, (which may notch into the faces of the seat and back,) the whole forms a framing on which a mattress, S, can be placed to form a couch, bed, or sleeping-berth.

In cases where it is desirable to provide a greater width, such as may take a broader mattress or two mattresses S S, as shown in Fig. 3, we modify the construction by hinging M and N together, instead of fixing them together at the angle Q, so that when required they can be folded back to a level attitude, as shown in Fig. 3. When the parts M and N are thus hinged instead of being fixed together, they should be provided with bolts or catches of any known kind to hold them either at an angle to one another, as in Fig. 1, or in line, as in Fig. 3.

Having thus described the nature of our invention and the best means we know of carrying it out in practice, we claim—

A reversible seat available as a bed-frame, consisting of two equal parts M and N, connected together, and linked, respectively, by equal radius-rods *m n* to a stationary framing having on it laths or stops R R′, constructed and arranged substantially as and for the purposes herein set forth.

In testimony whereof we have signed our names to this specification, in the presence of two subscribing witnesses, this 1st day of April, A. D. 1885.

JAMES LIVESEY,
FERNANDO HARRY WHITEHEAD LIVESEY.

Witnesses to the signature of James Livesey:
HERBERT E. DALE,
WALTER JAMES SKERTEN,
Both of 17 *Gracechurch St., London.*

Witnesses to the signature of Fernando Harry Whitehead Livesey:
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