No. 861,868. PATENTED JULY 30, 1907.

C. O. LEWIS.

DIVIDED BED.

APPLICATION FILED JAN. 26, 1907.

Fig. 1.

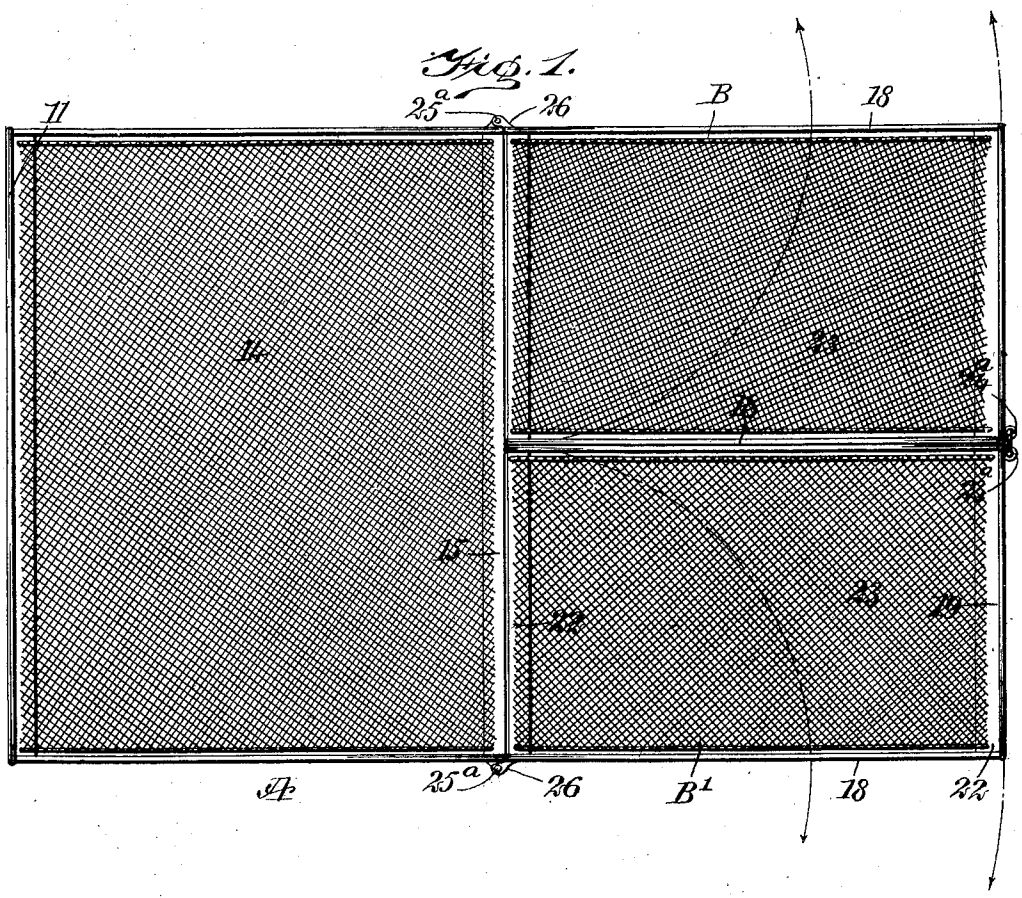


Fig. 2.

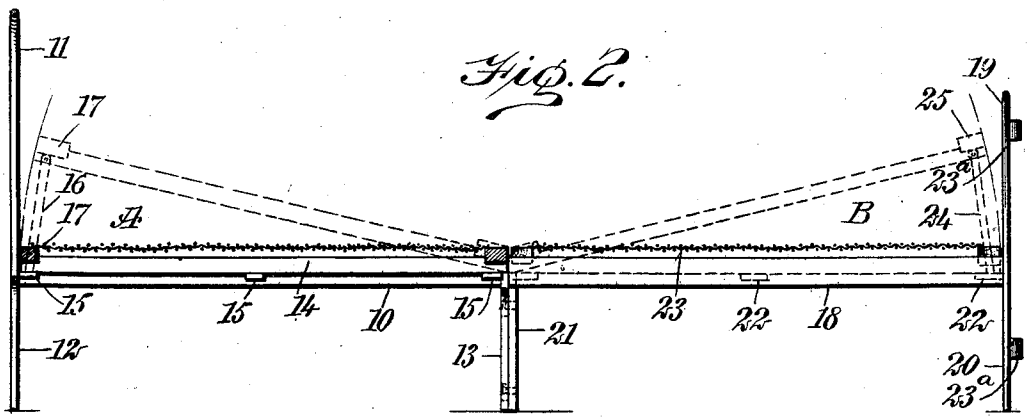
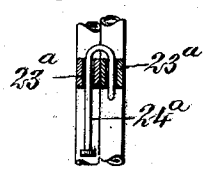


Fig. 3.

Fig. 4.



WITNESSES

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DIVIDED BED.

No. 861,868. Specification of Letters Patent. Patented July 30, 1907.

Application filed January 26, 1907. Serial No. 354,172.

To all whom it may concern:

Be it known that I, CHARLES ORVILLE LEWIS, a citizen of the United States, and a resident of Fayette, in the county of Howard and State of Missouri, have invented a new and useful Improvement in Divided Beds, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide a bed constructed in sections capable of separation and adjustment relatively to each other, which bed is equally adapted for home as for hospital use, enabling the physician, surgeon or nurse to gain convenient access to the patient without materially discommoding the latter, and whereby furthermore, one or both of the lower limbs of the patient, or the trunk may be elevated, as desired.

It is a further purpose of the invention to provide a bed of the character described that will be simple, durable and economic in construction.

The invention consists in the novel construction and combination of the several parts as will be hereinafter fully set forth and pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the improved bed, the direction of outward movement of the foot sections being indicated by arrows; Fig. 2 is a central section through the bed; Fig. 3 is a detailed view of the means preferably employed for connecting the adjustable sections of the bed at the sides of the latter; and Fig. 4 is a detailed sectional view illustrating one way in which the foot board or rail of the foot sections may be connected.

The bed is divided in three sections, a single head section A and two foot sections B and B′. The head section A consists of side rails 10 joined in any suitable or approved manner to a head board or rail 11 having extensions 12 that serve as legs for the said head board. A spring 14 is provided for the head section A and this spring rests upon suitable transverse supports 15 that are in the nature of slots, as is clearly shown in the drawings. The spring rests freely on the said supports 15 and if the trunk of the patient is to be elevated it is accomplished by means of arms 16 that are pivotally attached, for example, to the forward connecting bar 17 of the spring, as is shown in Fig. 2, and when the forward or head end of the spring is raised the said arms 16 are made to rest upon the forward connecting slats 15. It may be here stated that the said head section A of the bed is provided with legs 13 of any desired character, arranged to support the foot end of said head section, as is clearly shown in Fig. 2.

Each foot section B and B′ is of the same construction, and hence one only will be referred to. A foot section consists of side rails 18 connected at their outer or rear ends by a foot board or a foot rail 19 of any desired construction having also extensions 20, that serve as legs, and the inner end of a foot section B or B′ is supported by legs 21 that preferably correspond to the rear legs 13 of the head section A, as is also clearly shown in Fig. 2. In completing the frame work of the lower sections B and B′ transverse slats 22 are employed and these slats support springs 23, it being understood that the springs for each section are independent one of the other.

With reference to the foot sections B and B′, it is only necessary to elevate their rear or foot portions and to that end the mechanism employed for elevating the head portion of the spring for the head section of the bed may be duplicated, as for example, an arm 24 may be pivotally connected with the rear cross bar 25 of a spring for a foot section, as is shown in dotted lines in Fig. 2, which arms when the said springs of the foot sections are elevated, rest upon the rear cross bars 22 of the arms of the said sections.

The foot sections B and B′ have a pivotal and a removable connection with the head section A. This connection may be made in any desired way. Preferably, however, it is accomplished as illustrated, wherein, for example, the legs 13 of the head section A are provided with upwardly extending pins 25^a that are adapted to enter sockets 26 attached to or formed integral with the inner supporting legs 21 at the outer side portions of the foot sections B and B′ of the bed. Thus it will be observed that the foot sections may be entirely removed, either one or the other or both, or that either one or the other of the foot sections B and B′ of the bed may be swung outward as indicated by the arrows in Fig. 1, so as to enable the physician, surgeon or nurse to place a patient in such position that various parts of the body can be conveniently reached.

When the bed is adapted for use as an ordinary bed, the foot sections B and B′ are locked together. This may be accomplished in various ways. One way is illustrated in the drawings, and it consists in forming sockets 23^a on the inner upright members of the foot boards 19 and in passing through the said sockets of adjoining members, a bolt 24^a, the upper end of which is preferably given a U-shaped formation shown in Fig. 4.

This bed is exceeding simple in its construction and is well adapted for home use and is particularly adapted for hospital use. It is also as economic as simple in its formation.

I desire it to be understood that instead of the pintle 25^a and knuckle 26 being employed to connect the sections of the bed, one section may be provided with two knuckles and the other section with a single knuckle to enter between the said two knuckles, all of the knuckles being connected by a withdrawable pin. However, nothing new is claimed for the foregoing specific means for connecting the sections, but

such means nevertheless will obviate the necessity of lifting the sections of the bed in coupling or uncoupling them.

Having thus described my invention, I claim as new and desire to secure by Letters Patent,—

1. A bed comprising a head section and two foot sections hinged to the head section to swing in horizontal planes, each section being provided with legs.

2. A bed comprising a head section and detachable foot sections hinged to the head section to swing in horizontal planes, each section being provided with legs at its ends.

3. A bed, comprising a head section provided with legs at its upper and lower ends, two foot sections each provided with legs at its upper and lower ends, and a removable hinge connection between the legs of each foot section and the legs of the head section.

4. A bed, comprising a head section provided with legs at its upper and lower ends, two foot sections each provided with legs at its upper and lower ends, vertical pins on the legs at the lower end of the head section, and a socket on a foot at the upper end of each foot section, said sockets receiving the pins.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES ORVILLE LEWIS.

Witnesses:
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M. P. BELL.