

L. T. SMITH.
LIMB SUPPORT.
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1,048,750.

Patented Dec. 31, 1912.

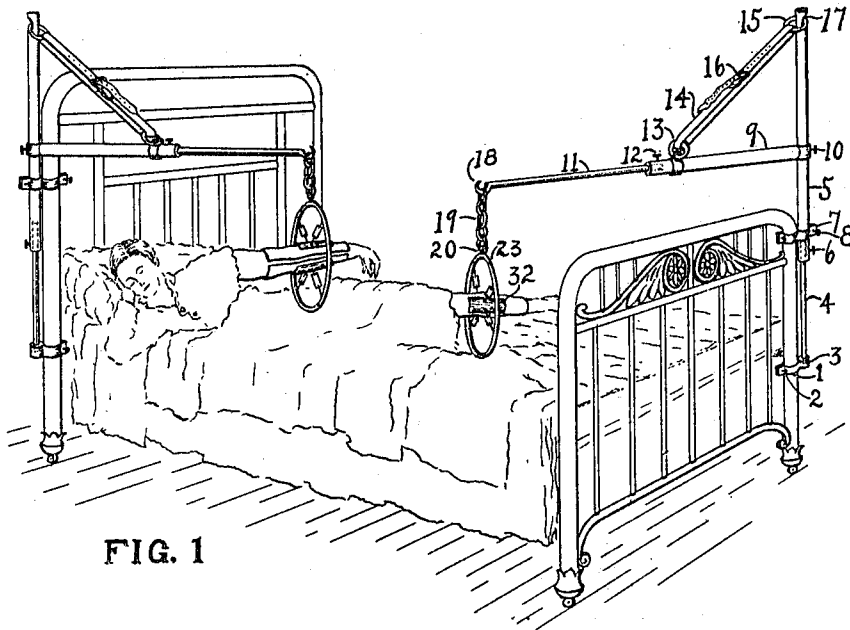


FIG. 1

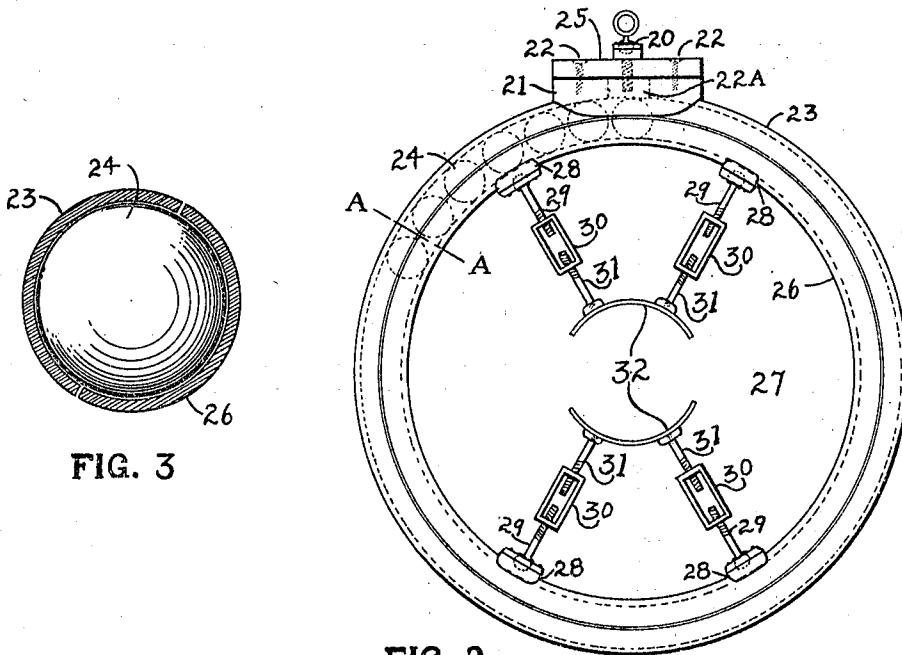


FIG. 2

WITNESSES

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LOUIS T. SMITH, OF SAN JOSE, CALIFORNIA.

LIMB-SUPPORT.

1,048,750.

Specification of Letters Patent.

Patented Dec. 31, 1912.

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To all whom it may concern:

Be it known that I, LOUIS T. SMITH, a citizen of the United States, residing at San Jose, in the county of Santa Clara and State of California, have invented a new and useful Limb-Support, of which the following is a specification.

My invention relates to an improvement in limb support for the human family, and the same is for the purpose of supporting a broken leg or arm while the leg or arm is set in splints or plaster cast, and one in which a sprained or dislocated joint may be supported with rest and comfort to the patient.

One object of my invention is to provide a limb support whereby the patient can change position without changing the position of the limb held by the support, and one in which the support can be adjusted to suit the position of the limb held by the support.

A further object of my invention is to provide an apparatus of the character described that shall be simple and comparatively inexpensive in construction, effective and durable, and easy of operation.

Other objects and advantages of my invention, as well as the structural features by means of which these objects are attained, will be made clear by an examination of the specification taken in connection with the accompanying drawings, in which the same reference numerals indicate corresponding parts throughout, and in which:—

Figure 1, is a perspective view of my complete device, Fig. 2, is a front elevation of limb rest, Fig. 3, is a sectional view on lines A A of Fig. 2.

1 designates a bracket or support formed of a strip of suitable material, preferably metal, and bent to form a curve around the bed-post and fastened thereto by set-screw 2; on the outer side of this support is socket 3, into which rod 4 rests and the same is movable in said socket; said rod 4 may be made of any suitable material, preferably brass tubing; the same enters sleeve 5 a distance and is movable in said sleeve, and held in place by set-screw 6. Said sleeve 5 is made of any suitable material preferably brass tubing, and the same is held in place by bracket 7 fastened to the top of the bed-post; said sleeve is movable in said bracket 7, and held in place by set-screw 8. Sleeve 5 extends upward a distance to which is connected sleeve 9, the same being adjust-

able on sleeve 5 and held in place by set-screw 10. Extending into sleeve 9 a distance is rod 11, the same being adjustable in sleeve 9, and held in place by set-screw 12. On the end of sleeve 9 is fastened ring 13; through this ring 13 is passed an adjustable strap 14, extending upward a distance and connecting with ring 15, at the top of sleeve 5; said strap 14 is adjusted by buckle shown at 16. This strap 14 is for the purpose of assisting in holding any weight that may come on sleeve 9. Ring 15 is held in place by a notch cut in the top of sleeve 5, as shown at 17. On the end of rod 11 is a hook 18; this hook is for the purpose of hooking on the links of chain 19. At the lower end of chain 19 is attached swivel 20, the same being attached to embossment 21, Fig. 2, by screws shown at 22. Embossment 21 is brazed to the outside of rim 23, and a hole bored through the center thereof to receive the ball bearings 24. This hole is filled up by a boss shown at 22^A on swivel cap 25, after ball bearings 24 are inserted between outer rim 23, and inner rim 26. Swivel 20 is a ball swivel joint for the purpose of adjustment of limb support 27 when the limb is resting therein. Rim 23 is grooved around its inner circumference, and rim 26 is grooved around its outer circumference; the two rims, 23 and 26, are then placed together and the ball bearings are put in place through the opening which is afterward filled by boss 22^A. Rim 26 is rotated inside of rim 23 on ball bearings 24, as shown in Fig. 3, which is a sectional view on lines A A of Fig. 2. On the inner circumference of rim 26 are brazed bosses 28, to which are fastened right-hand threaded studs 29; to these studs are connected turn-buckle 30, the same being connected by left-hand threaded studs 31 which are fastened to circular rest plate 32 and are for the purpose of adjusting rest plate 32 to the limb supported.

From the foregoing it is thought the construction and operation of my device will be obvious, and further explanation is not deemed necessary.

Having thus described my said invention, what I claim as new, and desire to secure by Letters Patent of the United States is:—

1. A limb support of the character described comprising a suspended circular adjustable limb support, ball bearings within the support for operating the same; means

for adjusting said support to the limb; means for holding said support in any position required; means for adjusting the ball bearings to said support; and means for
 5 suspending said support over the limb to be supported as shown and described.

2. In a limb support the combination of a bracket support, a perpendicular rod, a perpendicular sleeve, a horizontal sleeve, an
 10 adjustable rod extending into said horizontal sleeve, and means of fastening said rod in said sleeve; said rod having a hook on the outer end thereof to which a chain is connected; a swivel to which the lower end

of said chain is connected; and means of 15 fastening said swivel to the outer circumference of the outer half of said limb support, the same being grooved on the inner side thereof to receive the ball bearings, and an inner rim grooved on its outer circum- 20 ference, and held in place by ball bearings, as shown and described.

In witness whereof, I have hereunto set my hand this 5th day of September, 1912.

LOUIS T. SMITH.

Witnesses.

JOHN A. NAISMITH,
 B. BERNOL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."