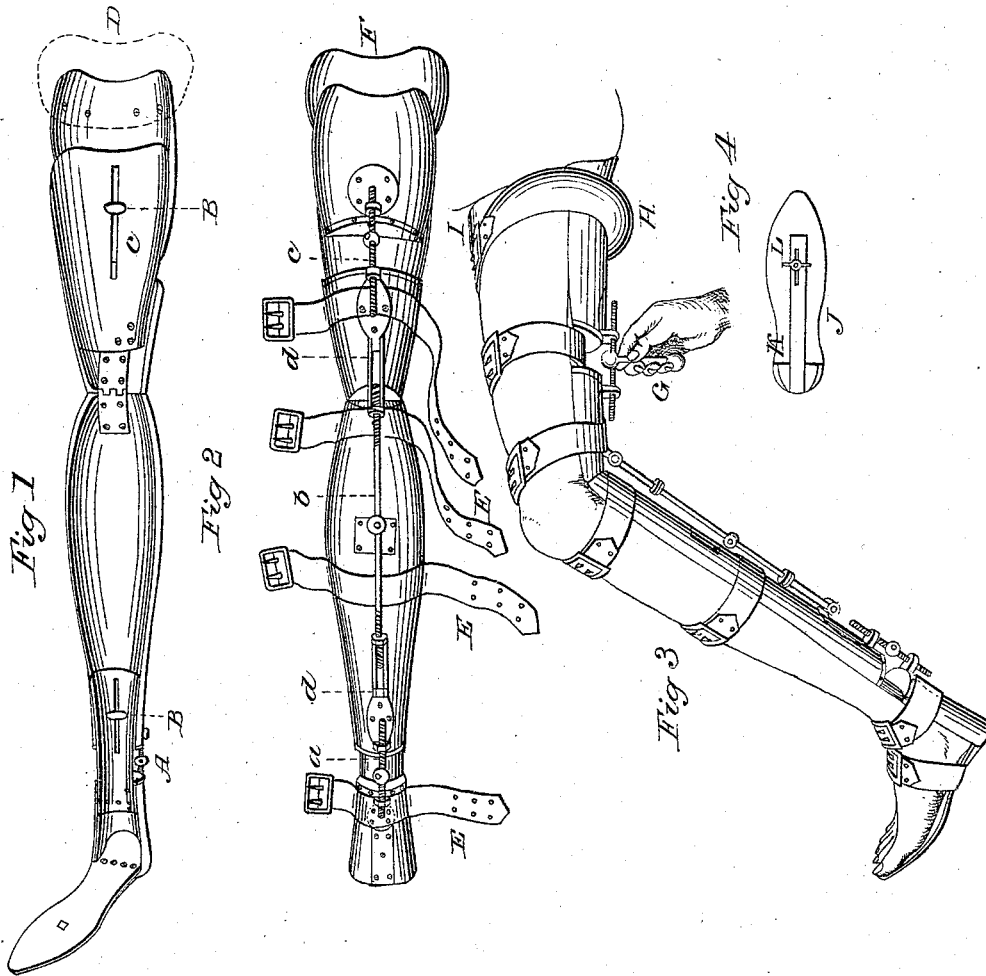


L. Post,
Surgical Synt.

N^o 3,859.

Patented Dec. 16, 1844.



UNITED STATES PATENT OFFICE.

LEWIS POST, OF LODI, NEW YORK.

FRACTURE APPARATUS.

Specification of Letters Patent No. 3,859, dated December 16, 1844.

To all whom it may concern:

Be it known that I, LEWIS POST, of the town of Lodi and in the county of Seneca and State of New York, have invented a new and useful Machine for Reducing Fractures of the Leg, Being a Splint with Extending and Counter-Extending Power; and I do hereby declare the following to be a clear and exact description of the same, reference being had to the drawings annexed making a part of this specification.

Figure 1, represents the interior of the splint excavated so as to suit the form of the leg, with two sheet iron or brass slides, in both of which, fissures are cut for one or more buttons that pass through to be fastened into the wood; the head of this button resting upon the slides, so as to confine their motion in a line with screws, and to keep them closely to the wood. See Fig. 2, *a* and *c*.

Fig. 2 represents the outside of the splint, with a portion of the spring passing over the heel, and with screws and burs of iron or brass, (*a* and *c*) being right and left screws for extension, and *b a*, a right and left screw for flexing the splint. *F* is the leather fastened by screws to the upper part of the splint and formed so as to suit the upper part of the body to which it is applied.

Fig. 3 represents the machine applied to the leg, flexed at an angle of 45. *H*, a round cushioned strap, is fastened to the upper part of the splint, and then firmly buckled in the groin. The strap below the knee is then buckled, and the knee brought firmly to the splint. These two points being se-

cured, extension is made by turning the screw.

To extend the leg below the knee, confine the foot to the splint, and buckle the strap above the knee. These two points being firmly confined, extensions with the screw is made in like manner.

Fig. 4 represents the foot piece made of leather or sheet iron, and fastened to the splint with screws; also the spring in which a fissure is cut, so as to allow a screw to pass through from the foot piece. This screw is fastened to the foot piece, and a thumb bur is used to confine the spring and foot piece, when motion is inadmissible.

I do not claim a splint susceptible of extension, nor the use of screws for extending them, but

What I do claim, is—

Making the splints which are thus extended, to constitute the double inclined plane to be flexed and extended in the manner substantially as herein set forth.

Believing the above described splint has not been known or used, prior to the invention of your petitioner, he therefore prays that Letters Patent of the United States may be granted to him therefor, vesting in him and his legal representatives the exclusive right to the same, upon the terms and conditions expressed in the act of Congress in that case made and provided, he having paid thirty dollars into the treasury and complied with other provisions of said act.

LEWIS POST.

Witnesses:

HALSEY SANDFORD,
JAMES MAPES.