

(No Model.)

2 Sheets—Sheet 1.

H. A. WEED.
SURGICAL SPLINT.

No. 529,002.

Patented Nov. 13, 1894.

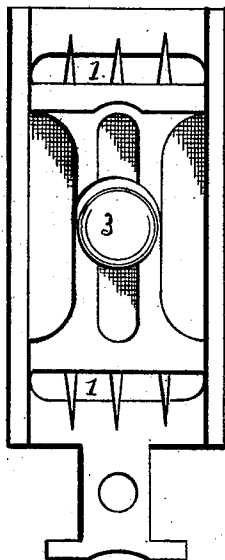


Fig. 4.

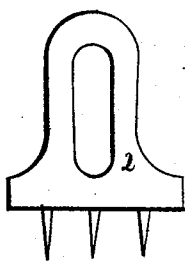


Fig. 5.

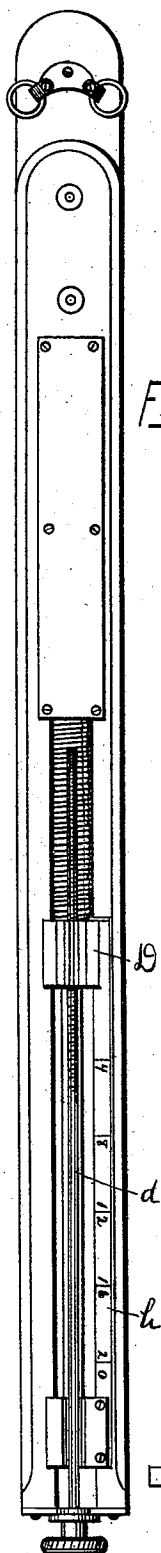


Fig. 1.

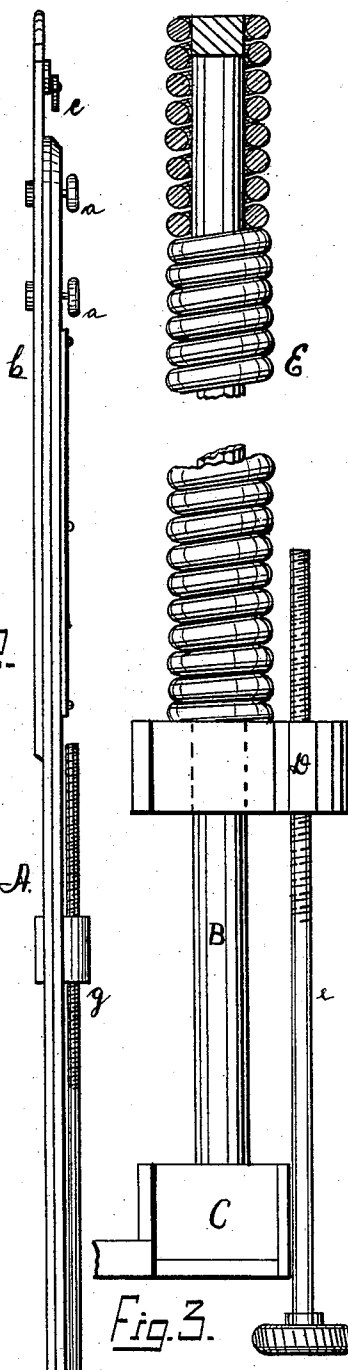


Fig. 2.

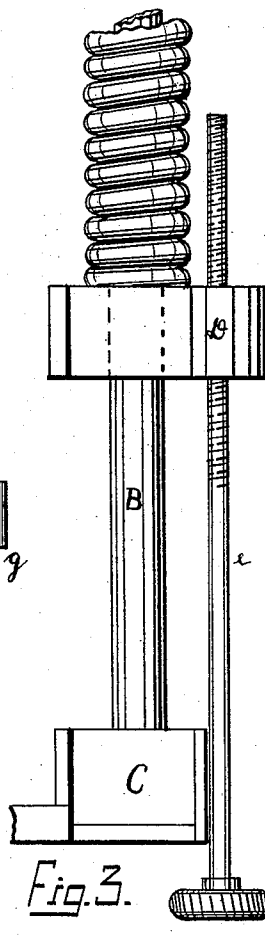


Fig. 3.

WITNESSES:

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By *Smith & Wadsworth*
ATTORNEYS.

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Fig. 6

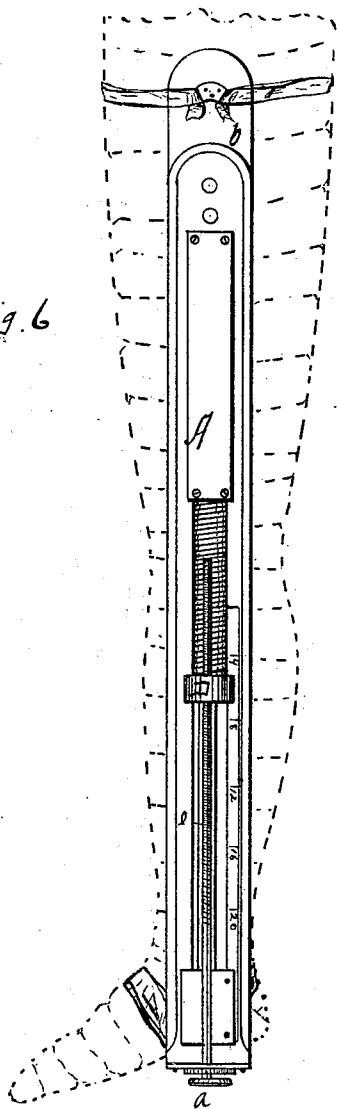
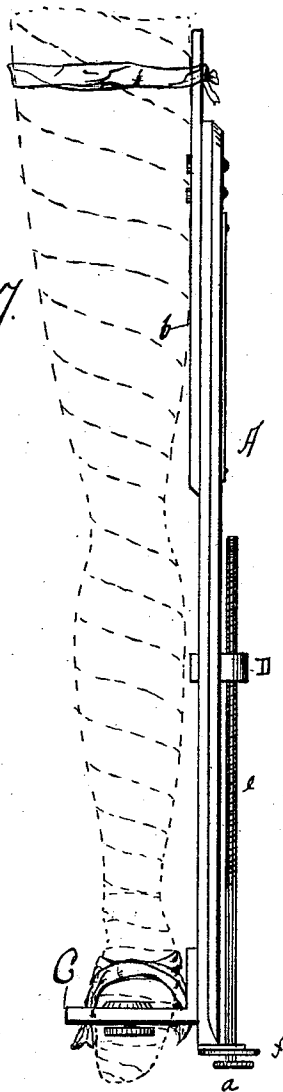


Fig. 7



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UNITED STATES PATENT OFFICE.

HILAND A. WEED, OF JORDAN, NEW YORK.

SURGICAL SPLINT.

SPECIFICATION forming part of Letters Patent No. 529,002, dated November 13, 1894.

Application filed August 11, 1893. Serial No. 482,910. (No model.)

To all whom it may concern:

Be it known that I, HILAND A. WEED, of Jordan, in the county of Onondaga, in the State of New York, having invented new and useful Improvements in Splints, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to splints for surgical purposes.

My object is to produce a splint to be used in setting broken limbs, by which I am enabled to produce a constant tension upon the limb for the purpose of drawing it uniformly, so that the tension will be uniform, irrespective of the condition of the bands which hold the limb to the splint, and to that end my invention consists in the several new and novel features and combination of parts which are hereinafter described, and specifically set forth in the claims hereunto annexed. It is constructed as follows, reference being had to the accompanying drawings, in which—

Figure 1, shows a bottom or outside view thereof. Fig. 2, shows an edge view thereof. Fig. 3, is an enlarged detail of the spring producing the tension, and means for operating it, detached. Fig. 4, is a bottom plan view of the foot rest showing means for securing the straps, which inclose the foot in position to bind the foot against the rest. Fig. 5, is a detached view of one of the sliding spurs which hold the straps within the slot-ways. Fig. 6, is a view of the device holding a limb showing the side view of the same. Fig. 7, is a similar view, showing the front of the limb.

Similar letters and figures of reference indicate corresponding parts.

A is the body of the splint provided at one end with thumb screws —a—, and —b— is an extended portion of the body —A— provided with a slot-way in which the thumb screws —a— are adapted to travel, so that the body may be adjusted to any length desired, and is provided at its ends with rings —c— to which the counter extended bands may be secured. The opposite end of the body —A— is provided with a slot-way —d— in which is mounted a rod —B— having one end secured to the foot piece —C— which is slidingly

mounted in said slot-way —d— and passes through a bracket —D— which is slidingly mounted in said slot-way and upon the opposite end of the said rod —B— and surrounding it is a coiled spring —E— secured at its opposite end within the body —A—.

—e— is a threaded shank mounted at one end within the shoulder —f— upon the end of the body —A—, and having its opposite end pass into a threaded opening —g— in the bracket —D— as shown in Fig. 3, and —h— is a scale secured at its outer end to the foot piece —C— for the purpose of determining the amount of strain which is produced upon the limb. Near its ends the foot piece —C— is provided with transverse slot-ways —l— through which the straps or extended bands by which the foot is secured to said foot piece pass. Said straps are held in any desired position and prevented from slipping through the slots, 1, in the foot piece, when the apparatus is in use, by spurs 2 which are connected to the body of the foot piece by a thumb screw, 3, which extends through suitable slots in the body of said spurs. The spurs can thus be readily adjusted longitudinally to engage the straps extending through the slots, 1, or to release them.

My invention is operated as follows: In case a leg is broken, it is bandaged upon the body —A— and the extending portion —b— thereof, the foot resting upon the foot piece —C—. If then it is desired to obtain a longitudinal or extending strain upon the leg, the tension is produced by rotating the shank —e— by the thumb screw —4— until the spring —E— is drawn out so as to produce any tension desired, and is indicated by the bracket —D— upon the scale —h— which may be indicated in ounces or pounds as desired.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The herein described splint comprising the parts —A— and —b—, means for securing them adjustably together, a foot-piece slidingly mounted within the body, a rod secured to said foot piece and its opposite end to a coil spring, said spring being secured at one end within the body —A— and means for extending the spring, bar and foot-piece.

2. The herein described splint comprising

the parts —A— and —b—, means for securing them adjustably together, a foot-piece slidably mounted within the body, a rod secured to said foot-piece and its opposite end
5 to a coil spring, said spring being secured at one end within the body —A—, a bracket —D— secured to the free end of the spring and a threaded rod —e— engaging with said

bracket and having its opposite end confined, as set forth. 10

In witness whereof I have hereunto set my hand.

HILAND A. WEED.

In presence of—

C. B. KINNE,

HOWARD P. DENISON.