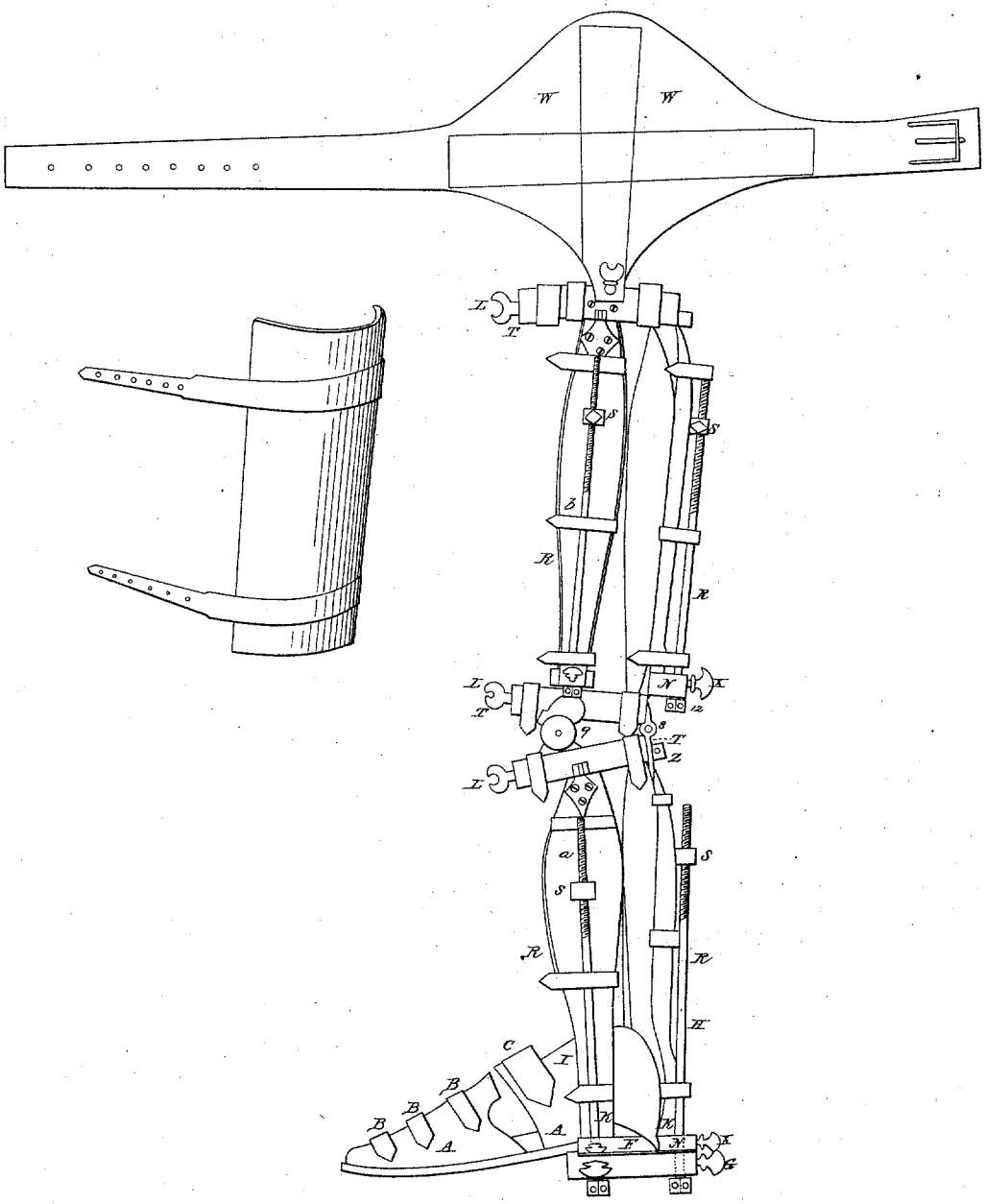
9483X

E. Thomas.

Fracture Apparatus.

Patented Mar. 8, 1836.



AM. PHOTO-LITHO. CO. N. Y. (OSBORNE'S PROCESS.)

9483X

Mar 8, 1836

Enoch Thomas Athens Ohio

Letters Patent.

To all whom it may concern Be it known that I Enoch Thomas of the town of Athens in the County of Harrison and State of Ohio have invented a new and useful improvement in the Splint for reducing fractures and dislocations of limbs in the human person called "Thomas' Metallic Sliding Splint" which is described as follows reference being had to the annexed drawings of the same making part of this specification. This Splint is adapted to the leg of any person of height from five feet 6 inches to seven feet also to any size of limb real or decayed. The reduction of the fracture or dislocation being accomplished by the use and power of springs &c. and in order to show more clearly the principles of this splint reference must be had to the annexed drawings. A B may be said to consist of four parts. 1 The shoe A A. 2. The part below the knee a. 3. The part above the knee b. and 4 the Athens piece W. The parts are connected by screws and hinges. The shoe is connected with the part below the knee by the screws K K which work through the sliding and slide in the heel of the shoe. Two holes and one perhaps to the shoulder screw S. in each splint for the lower end of the splint K K shown a slide 1½ inches long in all the holes of which is a shoulder at the shoe which the screws K K pass. The shoulder screw X passing thro the shoulder is a screw in the screw hole R. by which the heel is kept in its place. They can also be effected by screwing a nut on the end close to the shoulder at X. or that by leaving the screw at will act on the splint at S. Either may be by leaving the screw R the splint below the knee may be lengthened or shortened. R is a mortise hole by which a fracture below the knee may be reduced with perfect ease. The steel band T below the knee is which the splint is attached by means of the hinges X is the point of the leaving or loosening the leg engine of the screw may be taken out when the other two remain in full force so that the leg can be dressed at leisure. The foot is reduced part in the shoe by the steps I which fasten over the ankle from a staple near the fore part of the heel to a hook in the heel and buckle on the other side

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to another strap C from the quarter with a buckle. Likewise by the straps with straps and buckles B B B. The part below the knee is connected to the part above the knee by hinges (fig 8.) and the ankle splint fig 9 which gives flexion to the splint. These conceal the steel bands I. I. on the band above the knee and shoulders fig 12. which answers to the shoulder of the slide in the splint. Upon which as well as the shoulder of the slide, the screw R of the thigh runs to the shoulder screw S. Thro which it passes as in the splint below the knee. The slides in these splints run the same as below fig 8 & 9 a inches which together give to the splint 4 inches more than its natural length. The latest screw X. runs the same as in the lower splints which also could be fixed by a nut on the rod R. instead of the screw X. screwed on to the rod close to and above the shoulder N. On end of the steel bands I. I. I. passes through a mortise in the other 3 inches so that the bands can be enlarged or diminished when required. These bands in the application of the splint are to be laid open. when the leg is in the the bands are fastened by the lateral screws I. I. I. I. so that any leg so diseased may be accommodated, and by the slides and lateral screws in the knee & the ankle splint may be enlarged from below to the bottom. In the application of the splint the knee is first put on and secured; then the bands are opened and the leg laid in and secured by the lateral screws. Then the splints are brought down and the screws below the knee first inserted to their places by the lateral screws belonging to them or by a nut screwed on the rod above the shoulder N. Then by raising on the screw the leg is extended. The screws about the knee are in the same manner. The pillows pass thro part in and the straps buckled across the fore part of the abdomen and they may be enlarged at pleasure. All the splints as well as the bands and pillows are padded. For a further illustration of my invention I refer to the model of the same deposited in the Patent Office. What I declare as my invention and which I desire to secure by Letters Patent is the combination arrangement and adaptation of the several parts of the splint as before described. for the reduction of fractures and dislocation of limbs

Witnesses
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