(No Model.)

H. ESSER.

EXTENSION TRIPOD.

No. 347,927. Patented Aug. 24, 1886.

Fig. 1.

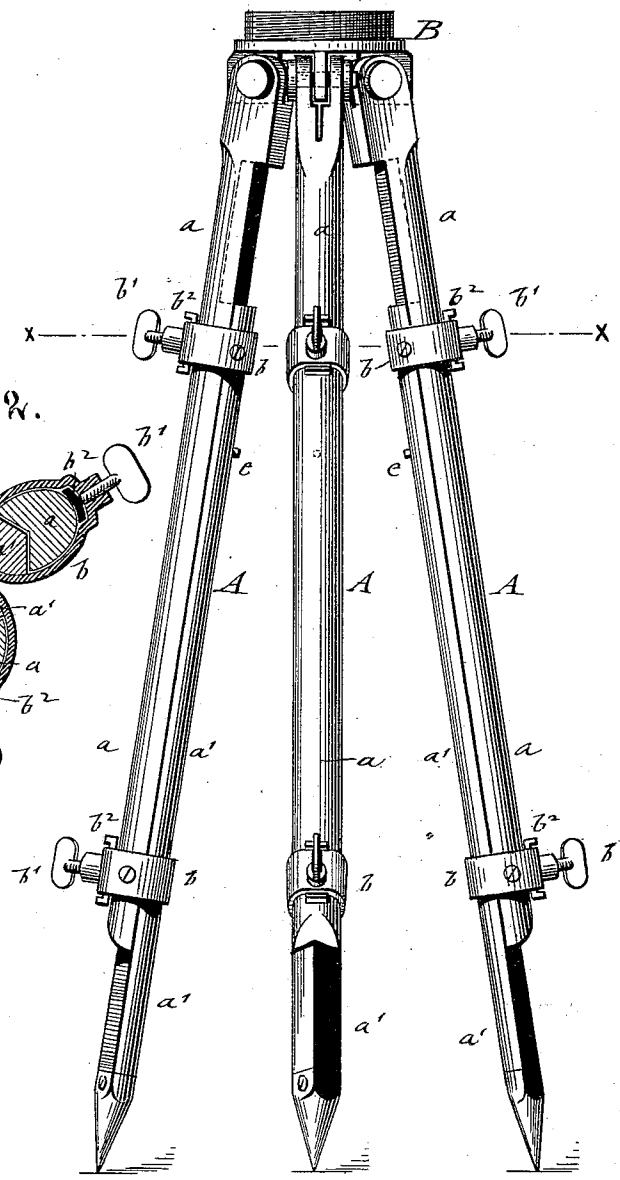
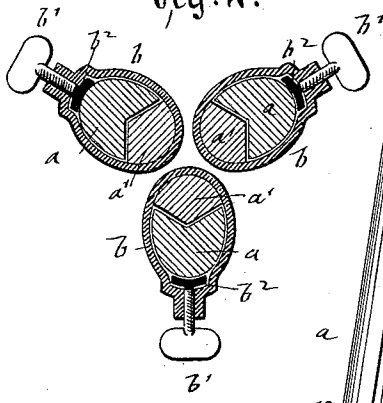


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HERMANN ESSER, OF HOBOKEN, NEW JERSEY.

EXTENSION-TRIPOD.

SPECIFICATION forming part of Letters Patent No. 347,927, dated August 24, 1886.

Application filed May 21, 1886. Serial No. 202,863. (No model.)

To all whom it may concern:

Be it known that I, HERMANN ESSER, of Hoboken, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Extension-Tripods, of which the following is a specification.

This invention relates to an improved extension-tripod for surveying and similar instruments, the legs of which can be conveniently extended or pushed back, so as to take up small space and permit of readily setting up the instrument on uneven ground; and the invention consists of a tripod provided with extensible legs, each leg being composed of two sections—a hinged section and a sliding section—the latter being guided by an obtuse-angled side on the hinged section, and by means of bands attached, respectively, to the hinged section and sliding section, said bands being provided with clamping devices for firmly securing the sections in position.

In the accompanying drawings, Figure 1 represents a side elevation of my improved extension-tripod, and Fig. 2 is a horizontal section of the same on line *x x*, Fig. 1, drawn on a larger scale.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A A represent the legs of my improved extension-tripod, which legs are hinged to the top or platform B in the usual manner. Each leg A is made of two sections, *a a'*, of which the section *a'* is provided with a metallic point at the end, and guided along the section *a* by means of bands *b b*, which are attached, respectively, to the opposite ends of the sections *a a'*. The sliding section *a'* is guided in an obtuse-angled recess of the section *a*, its adjoining side being shaped correspondingly, as shown clearly in Fig. 2. When the extensible sections are drawn out to the proper length, they are clamped by means of thumb-nuts and washers *b' b²*, or other suitable clamping devices arranged in connection with the bands or clips *b b*. The extensible sections *a'* are provided near the upper ends with stop-pins *e e*, so as to prevent them from being drawn out entirely and detached from the sections *a*.

The essential feature of my construction consists in the form of the cross-section given to the sections *a a'*, as by this form the strength of the same is not impaired, and no pockets or recesses formed on the outer sides of the legs in which the water can enter and cause swelling of the wood or otherwise act injuriously, and finally the legs are not weakened or rendered apt to get out of order.

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

An extension-tripod composed of hinged legs, each formed of a hinged section and a sliding section, which are guided by bands and secured by clamping devices, said sections being guided along each other by means of obtuse-angled adjoining sides, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

HERMANN ESSER.

Witnesses:

MARTIN PETRY,

WILLIAM ARNOLD.