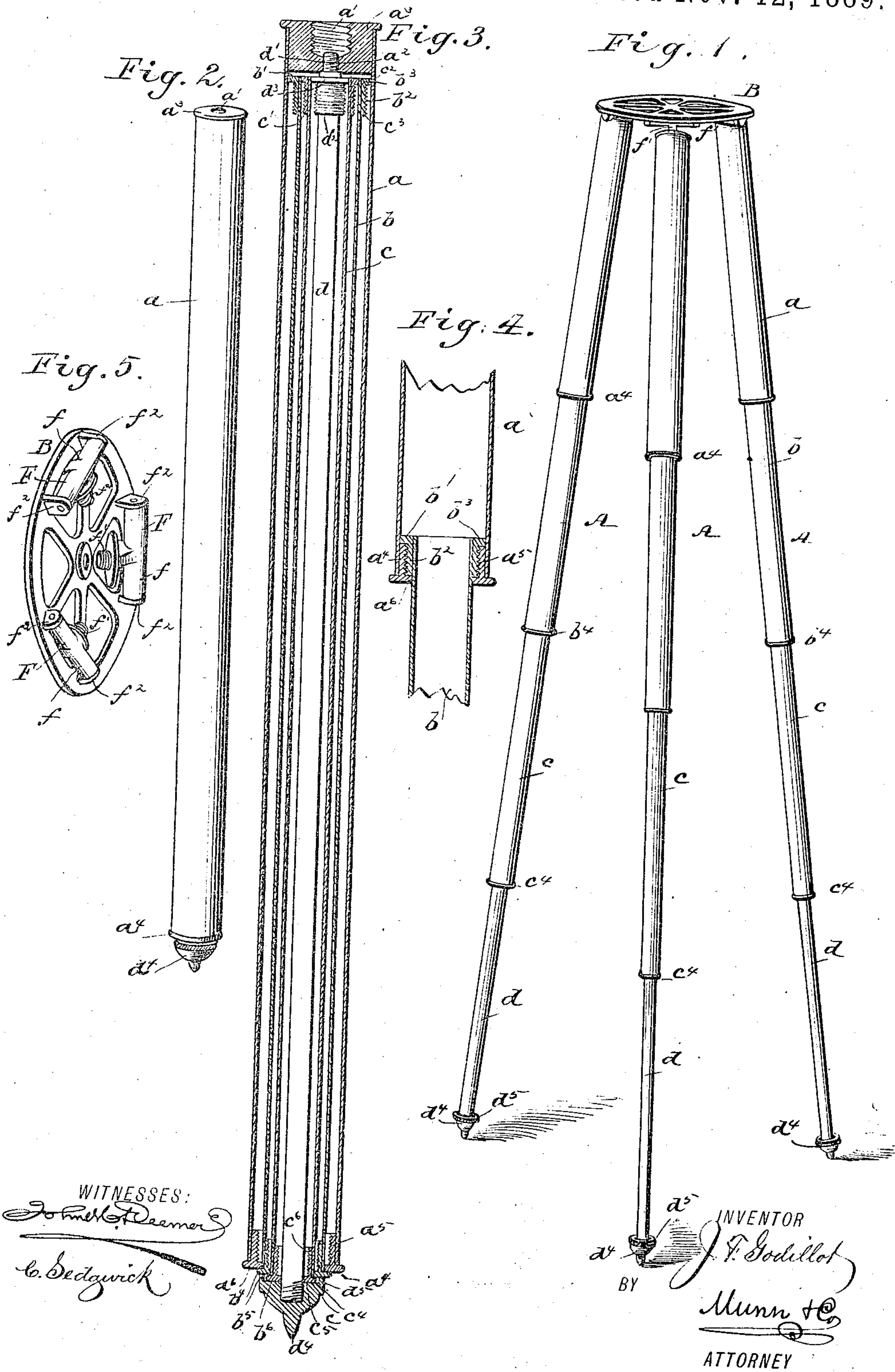


(No Model.)

J. F. GODILLOT.
TRIPOD.

No. 414,903.

Patented Nov. 12, 1889.



UNITED STATES PATENT OFFICE.

JOHN F. GODILLOT, OF NEW YORK, N. Y.

TRIPOD.

SPECIFICATION forming part of Letters Patent No. 414,903, dated November 12, 1889.

Application filed March 1, 1889. Serial No. 301,607. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. GODILLOT, of the city, county, and State of New York, have invented a new and Improved Tripod, of which the following is a full, clear, and exact description.

The object of my invention is provide a tripod designed more particularly for photographic and surveying purposes having such construction that it shall be light, practical, cheap, and easily portable, that is adapted to be dismembered, and the parts telescoped to occupy small space.

The invention consists in the construction of the tripod, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my new tripod as it appears when ready for use. Fig. 2 is an enlarged perspective view of one of the legs as it appears when detached and folded. Fig. 3 is an enlarged sectional elevation of the same. Fig. 4 is an enlarged detail sectional view showing the screw-joint at the ends of the sections, and Fig. 5 is a perspective view of the top piece or table of the tripod.

The tripod is composed of the three members or legs A and the top piece or table B, provided with three pintle-joints F, to and from which the legs A may be readily attached and detached. The legs A are each composed of a series of sheet-metal tubes or sections *a b c d*. I prefer to use four sections; but a greater or less number may be employed, according to the length of each section and the height of tripod required. The top section A is provided at its upper end with a screw-socket *a'* to receive the screw-stud *f'* of the pintle-joint F. It is also provided with another screw-socket *a''*, to receive the screw-threaded upper end *d'* of the bottom section *d*, as shown in Fig. 3. The two sockets *a'* *a''* are formed in a metal cap-piece or plug *a'''*, fitted in the upper end of the section *a*. The lower end of the said section *a* is fitted with a hollow metal plug *a''''*, which is internally screw-threaded, as shown at *a'''''*, and below the

screw-threaded portion is an inwardly-projecting flange *a''''''*, which serves as a bearing to the section *b* in its sliding or telescopic action in the section *a*. The said section *b* is of about the same length as the section *a*, but of somewhat less diameter, so that it is adapted to slide freely within the section *a*. The upper end of the section *b* is provided with a short metal sleeve or collet *b'*, formed with an externally-screw-threaded portion *b''* to screw into the hollow plug *a''''* at the bottom of the section *a*. The upper part of the collet *b'* is formed with the ring or flange *b'''* of an external diameter equal to the internal diameter of the section *a*, so that it forms a bearing and brace for the inner end of the section *b*. The lower end of this section *b* is fitted with a hollow plug *b''''*—a duplicate of the plug *a''''*—at the bottom of section *a*, except smaller in size. It is formed with a flange *b'''''* to act as a bearing to the section *c*, and internally screw-threaded at *b''''''* to receive the externally-screw-threaded collet *c'* at the upper end of the said section *c*. The section *c* is of smaller diameter than the section *b*, and is adapted to slide freely therein. The collet *c'* is formed with a flange *c''* to fit the interior of the section *c*, and with the externally-screw-threaded portion *c'''* to screw into the hollow plug *b''''* at the lower end of section *b*.

The lower end of the section *c* is provided with the hollow plug *c''''*, like plugs *a''''* *b''''*, but smaller. It is formed with a flange *c'''''* to act as a bearing to the lower section *d*, and is internally screw-threaded at *c''''''* to receive the collet *d'* at the upper end of the lower section *d*. The said lower section *d* may be made small and solid or hollow and of suitable diameter to slide freely within the section *c*. The collet *d'* at the upper end of this section is flanged at *d''* to fit the interior of the section *c* and act as a bearing and brace. The extreme top of this section is provided with the screw-shank *d'''*, as above described, to enter the sockets *a''* when the sections are closed together, so that section *d* acts as a tie-rod to hold the sections together, as shown clearly in Fig. 3. The bottom is provided with a solid point *d''''* to penetrate the ground or floor to prevent the tripod from slipping when set up for use. This point *d''''* is cupped

to form a flange d^3 to inclose the hollow plug c^4 when the leg is closed, as shown in Fig. 3.

When the legs are to be used, the section d is turned to release it from the plug a^3 . Then the sections are drawn out and each turned to connect the collet at the upper end with the hollow plug at the lower end. In this manner the sections are extended and all fastened securely together, forming a light and slender but sufficiently firm and strong leg. The legs being thus extended and the sections screwed together, they are to be attached to the table B by simply screwing the same to the joints F, as above described. These joints are each composed of a small short shaft f , formed with the screw-pintle f' , and journaled in the lugs f^2 , formed upon or secured to the lower surface of the table B. By thus pivoting the shaft f the legs, when attached thereto, may be set at any angle or pitch to raise or lower the table B, as circumstances require, and when the legs are removed the pintles f' may be turned close to the bottom of the table, as shown in Fig. 5, so that the table will occupy small space.

By making the tripod as described it will be seen that the legs may be readily detached from the table and the sections disconnected and shoved together and fastened, so that they may be carried or packed in small space, and the table, when the legs are removed, may also be carried in small space, making the whole not only practicable and adapted for ready use, but cheap, light, sufficiently firm, and durable, and the whole presents a very handsome appearance.

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

1. The tripod herein shown and described, comprising a top piece or table provided with adjustable connections or joints, in combina-

tion with the upper leg-sections provided with screw-threaded sockets at each end and lower telescopic sections, each provided at each end with fastening-collets fitted in the ends of the sections, substantially as described.

2. As a new and improved article of manufacture, a tripod-leg composed of the tubular section a , having at its upper end a double-socketed screw-plug, in combination with lower telescopic sections adapted to be extended and fastened, the lowermost section being formed with a screw-shank to connect with the plug at the top of the main section a , substantially as described.

3. The section a , provided at one end with the plug a^3 , having screw-threaded sockets a' a^2 , and provided at the other end with an internally-screw-threaded plug a^4 , substantially as described.

4. The section b , provided at its upper end with a screw-collet b' and at its lower end with an internally-screw-threaded plug b^4 , substantially as described.

5. The section b , provided at its upper end with the screw-threaded collet b^2 , having flange b^3 , and provided at its lower end with the internally-screw-threaded plug b^4 , having flange b^5 , substantially as described.

6. The bottom section d , formed with collet d^2 and screw-threaded shank d' , in combination with the section a , having plug a^3 , formed with screw-socket a^2 , section c , having internally-screw-threaded plug c^4 , and the intermediate sections, each having screw-threaded collets and internally-screw-threaded plugs to receive the collets, substantially as described.

JOHN F. GODILLOT.

Witnesses:

H. A. WEST,
EDGAR TATE.