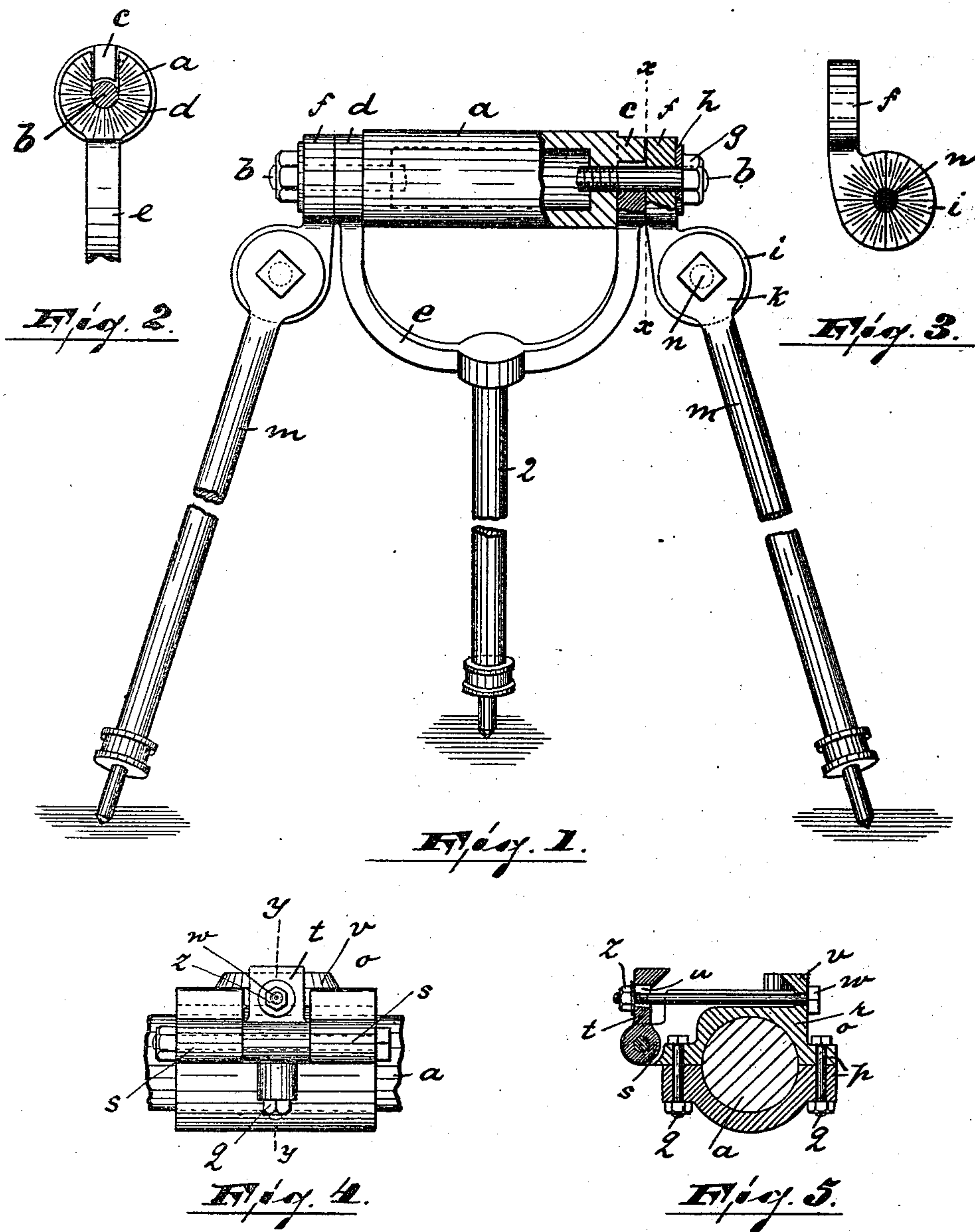


(No Model.)

W. WOOD.
TRIPOD.

No. 497,042.

Patented May 9, 1893.



WITNESSES:

W. D. M. L.
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INVENTOR:

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ATTORNEYS

UNITED STATES PATENT OFFICE.

WARREN WOOD, OF PATERSON, NEW JERSEY, ASSIGNOR TO SAMUEL G. McKIERNAN, OF SAME PLACE.

TRIPOD.

SPECIFICATION forming part of Letters Patent No. 497,042, dated May 9, 1893.

Application filed November 29, 1892. Serial No. 453,481. (No model.)

To all whom it may concern:

Be it known that I, WARREN WOOD, a citizen of the United States, residing in Paterson, county of Passaic, and State of New Jersey, have invented certain new and useful Improvements in Tripods; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to new and useful improvements in tripods for rock drills and similar machinery, and it consists essentially in the novel construction and arrangement of the front and rear leg holders and their connection with the shaft of the tripod; it further consists in the clamping device, and in the construction and arrangement of parts hereinafter more fully described and claimed. In the drawings similar letters and figures indicate similar parts throughout the several views.

Figure 1 is a side elevation of the improved tripod. Fig. 2 is a cross section taken on the line *x-x* of Fig. 1. Fig. 3 is a detail view of a certain connecting piece or link. Fig. 4 is a side elevation of the clamping device for the drill, attached to the shaft of the tripod, and Fig. 5 is a cross section taken on the line *y-y* of Fig. 4.

In said drawings *a* represents a spindle or shaft, provided at each end with a bolt *b*, preferably made integral with the spindle. Secured to or made integral with said spindle are lugs *c*, adapted to be engaged by the slotted or forked portions *d* of yoke *e*, to which latter the rear leg 2 of the tripod is secured in any desired manner. To each of the bolts *b* is pivotally secured a disk *f* held in position by nut *g* and washer *h*. Depending from said disk and at approximately right angles thereto is arranged a projection or disk *i*, to which latter the circular end or disk *k* of front leg *m* is pivotally secured by a bolt *n* and its respective tightening nut, as clearly shown in Fig. 1 of the drawings.

The engaging faces of the disks *i* and *k* are radially corrugated or roughened, so that

when the nuts of bolts *n* are tightened, the front legs are prevented from turning, and the vibration and strain exerted on the tripod by the operating drill, will not as easily unloosen said nuts, as it does on otherwise constructed tripods. Preferably the engaging faces of disk *f* and of the forked portion *d* of yoke *e* are similarly corrugated for the same purpose, as hereinbefore described. It will be seen from this arrangement and construction of the tripod, that the front legs *m* may turn upon the bolts *b* of spindle *a* and that they have also an independent movement about the bolt *n*. The yoke *e*, on account of its slotted or forked portions *d* engaging the bolts *b* and lugs *c* of spindle *a* can be turned with said spindle *a* (when the nuts *g* are loosened), or can be entirely withdrawn from said spindle, if desired.

To the shaft or spindle *a* of the tripod is attached the clamping device *o*, consisting of split sleeves *p*, whose parts are firmly secured together by bolts *q*, as clearly shown in Fig. 5 of the drawings. The upper portion *r* of said sleeve is provided with projecting lugs *s*, to and between which is pivotally secured a clamping block *t*, provided with an elongated slot *u*. The top of the upper portion *r* of the sleeve is flattened and is provided with a circular flange *v*, adapted, in connection with block *t*, to clamp the mounting plate of a drill or similar machinery. Through portion *r* and elongated slot *u* passes a bolt *w*, provided with a nut *z*, by means of which the clamping block *t* is operated and controlled.

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

1. In a tripod the combination with the shaft and its projecting bolts, of lugs made integral with said shaft, front leg holders pivotally arranged on said bolts, and a rear leg holder substantially in the shape of a yoke, the outer ends of said yoke being provided with forked portions, adapted to engage the bolts and the projecting lugs of the shaft, substantially as and for the purposes set forth.

2. In a tripod, the combination of the shaft and its projecting bolts, with lugs made integral with said shaft, disks *f*, carrying the

front leg holders, said disks being pivotally arranged on the projecting bolts, with yoke *e* carrying the rear leg 2, said yoke being provided with forked portions, adapted to engage the bolts and the projecting lugs of the shaft, the engaging faces of said disks *f* and yoke *e* being radially corrugated or roughened, and with nuts *g*, adapted to clamp said disks *f* and yoke *e* together, all said parts, substantially as and for the purposes described.

3. In a tripod, the combination of the shaft, its projecting bolts and the front leg holders pivotally arranged on said bolts, and with a yoke carrying the rear leg, said yoke being provided at its outer ends with forked portions *d*, adapted to engage the projecting bolts of the shaft, substantially as and for the purposes specified.

4. In a tripod the combination with the

shaft, of bolts arranged on each end of said shaft, disks *f* pivotally arranged on said bolts and provided with downwardly extending disks *i*, to which are pivotally secured the disks *k* of the front legs *m*, a yoke *e* carrying the rear leg 2 and provided with forked portions, adapted to engage the bolts *b*, the engaging faces of disks *f* and yoke *e* and also of disk *i* and disks *k* being radially corrugated, all said parts substantially as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 22d day of November, 1892.

WARREN WOOD.

Witnesses:

ALFRED GARTNER,
WALTER THOMPSON.