

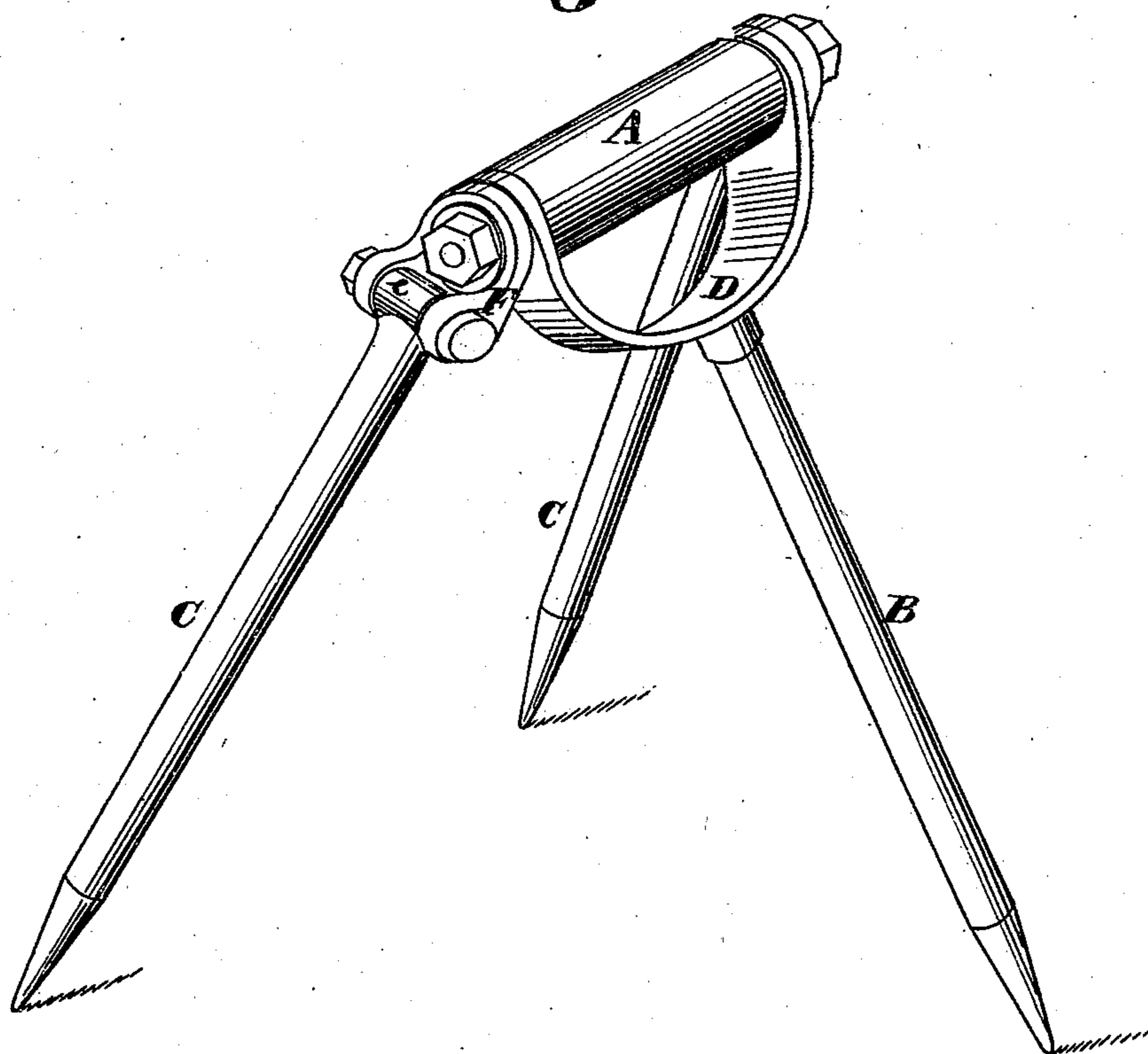
L. W. COE.

TRIPODS FOR ROCK-DRILLS.

No. 174,352.

Patented March 7, 1876.

Fig. 1.



Witnesses

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UNITED STATES PATENT OFFICE.

LAWRENCE W. COE, OF AUBURN, NEW YORK.

IMPROVEMENT IN TRIPODS FOR ROCK-DRILLS.

Specification forming part of Letters Patent No. **174,352**, dated March 7, 1876; application filed October 13, 1875.

To all whom it may concern:

Be it known that I, LAWRENCE W. COE, of Auburn, Cayuga county, State of New York, have invented an Improved Tripod for Supporting Drills; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvement without further invention or experiment.

My invention relates to certain improvements in the stands or tripods which are employed to support rock-drills while they are working; and it consists in a novel construction of the joints of the two side legs, by which I am enabled to make the movement of these legs almost universal, and thus place the drill in the most advantageous position for work, while, from the peculiar formation of the joint, no projections appear above the level of the cylinder or shaft to which the drill is secured.

Referring to the accompanying drawings for a more complete explanation of my invention, A is the cylinder to which the drill is to be fixed. This cylinder, which lies in nearly or quite a horizontal position, has a rear leg, B, and two side or front legs, C C. The leg B is secured to a semicircular piece of metal, D, which has its ends pierced to receive the axis of the cylinder, as shown. The legs C C are each hinged, at e, to a plate, F, so that they have a lateral motion, while the plates F are perforated so as to receive the axis of the

cylinder A, around which the plates may be turned, and this motion, combined with the lateral motion of the legs from the plates F, will allow the legs C to be put in any position which may be desired, even to bracing them against the side or face of the tunnel or rock which is being drilled. The plates F are flush with the top of the cylinder, and, as there are no projections above it, the drill may be moved in any position unimpeded.

The peculiar construction of the joints of the legs allows them a freedom of motion which never can be obtained by a ball-and-socket joint, and, as a consequence, drills mounted upon my tripod can be worked to the greatest advantage.

The legs are telescoped, or made extensible, in the usual manner, to accommodate them to irregularities of the surface.

Having thus described my invention, I do not claim, broadly, a tripod having movable legs, nor the use of a ball-and-socket joint for giving the legs a variety of motions; but

What I do claim is—

The plates F, having a motion about the axis of the cylinder A, and having the legs C hinged to them so as to have a lateral motion, the whole combined to operate substantially as and for the purpose herein described.

LAWRENCE W. COE.

Witnesses:

JNO. L. BOONE,

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