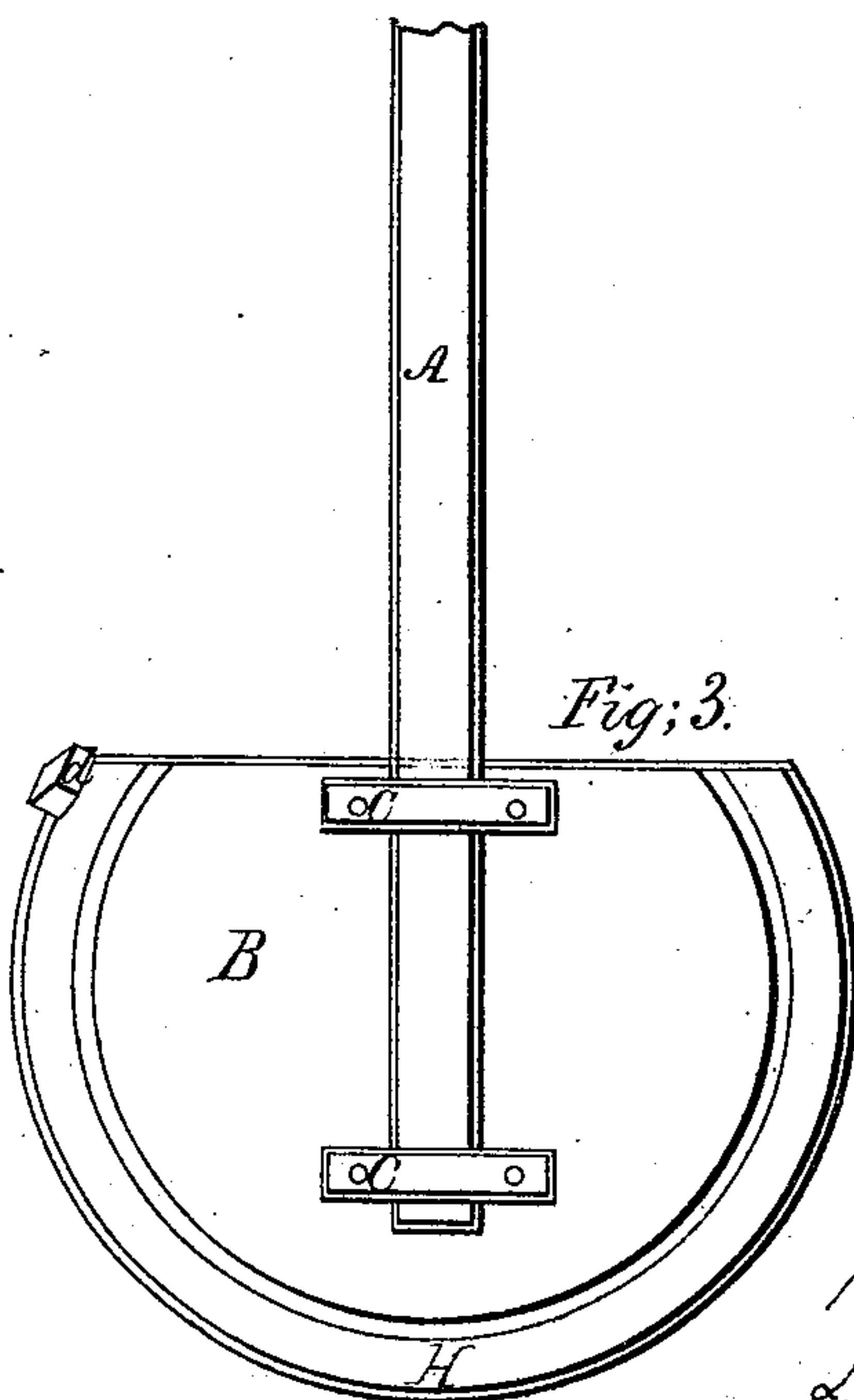
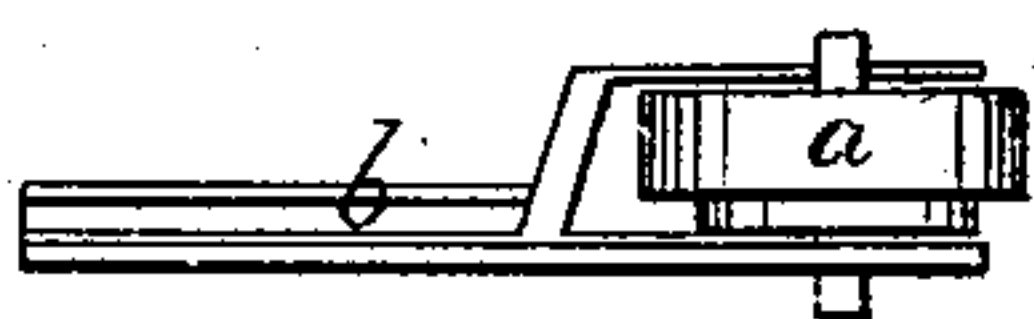
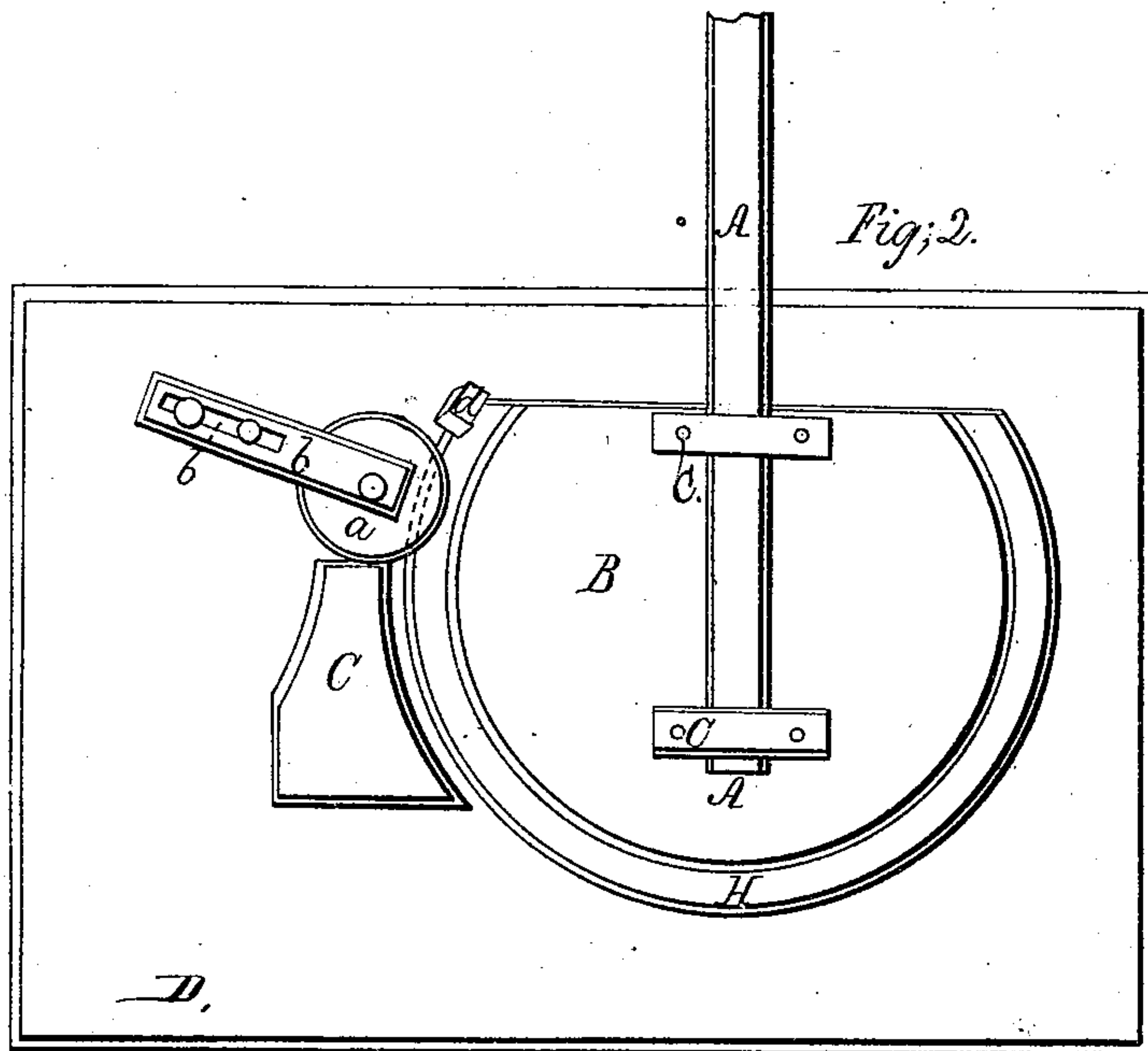
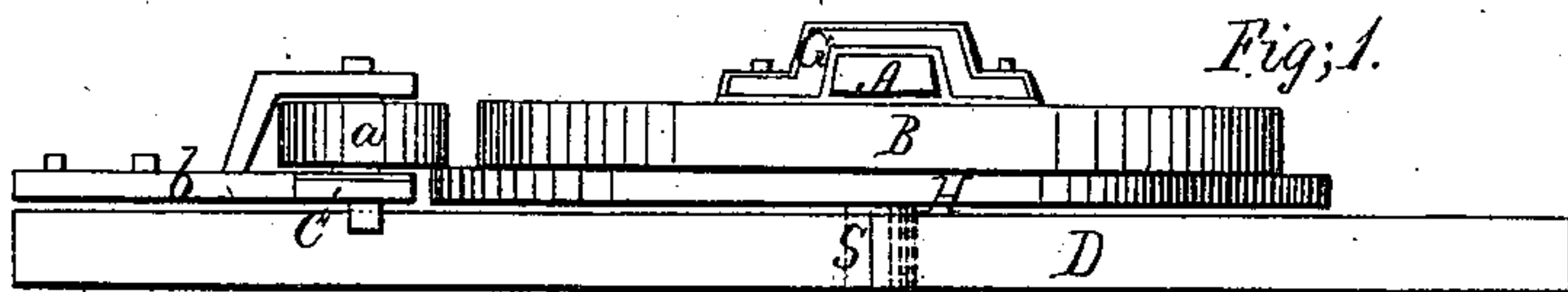


W. & I. H. Mosher,

Bending Tires,

N^o 25,346.

Patented Sep. 6, 1859.



Witnesses.
Joshua H. Mosher.
Amos Barton.

Inventors.
William Mosher
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UNITED STATES PATENT OFFICE.

WILLIAM MOSHER AND ISAAC H. MOSHER, OF GREENE, NEW YORK.

MACHINE FOR BENDING WAGON-TIRES.

Specification of Letters Patent No. 25,346, dated September 6, 1859.

To all whom it may concern:

Be it known that we, WILLIAM MOSHER and ISAAC H. MOSHER, of the town of Greene, Chenango county, and State of New York, have invented a new and Improved Machine for Bending or Forming Tires or Hoops for Wagons or other Purposes; and we hereby declare that the following is an accurate and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of our invention consists in using a circular former made of wood or metal. This former is made with a flange upon the lower portion, to keep the bar up to an equal position. It also has a clutch to hold the end of the bar firmly to the face of the former, and a lever fastened to the top of the former to turn it by. We also use a friction roller to press the bar against the face of the former firmly when in use. This friction roller is held by a stirrup made fast to the platform or bench used to hold the former and fastened by bolts through the slough in the stirrup of Figure 2.

To enable others skilled in the art to make and use our invention we will proceed to describe its construction and operation.

We use a platform or bench of sufficient surface and firmly stayed. In this platform D, Figs. 1 and 2, we affix a socket for the pivot S, Fig. 1, of the former to rest in; and also to fasten the stirrup b, Figs. 1 and 2 and 4, and hold it firmly in its position. This stirrup is forked at one end to receive the friction roller and with pivot holes through which a pin or bolt passes for the roller to revolve on. The opposite end is a

flat plate, Fig. 2, f, with a slough in through which the bolts pass to hold it to the platform; this slough is for the purpose of letting the roller come nearer to or go farther from the face of the former as different thicknesses of iron may require. The former, Fig. 3, is made three fourths of the entire circle, of plank or metal as desired, some less in diameter than the required size of the hoop or tire. On one corner is fastened a clutch or clasp to hold the end of the bar, Figs. 2 and 3, d. There also are two sockets fastened to the top of the former to receive the lever A, Figs. 2 and 3, and a center pivot S, Fig. 1, to fit a socket in the platform made to receive it. There is fastened to the platform also a rest C, Fig. 2, to keep the bar from bearing too hard upon the flange H, Figs. 1 and 2 and 3, of the former as the bar is drawn forward.

The particular advantage of this mode of bending tire or hoops is, 1st, it bends the hard and soft parts of a bar uniformly alike; 2d, it takes out all wind or twist, doing the work in the most perfect manner.

Having thus described our improvement what we claim as new and desire to secure by Letters Patent, is—

The clutch, or clasp, to hold the end of the bar; in combination with the former, being made three-fourths of the circle, and the arrangement of the lever, for operating, as specified, and for the purposes set forth.

WILLIAM MOSHER.
ISAAC H. MOSHER.

Witnesses:

JOSHUA H. MOSHER,
AMOS BARTON.