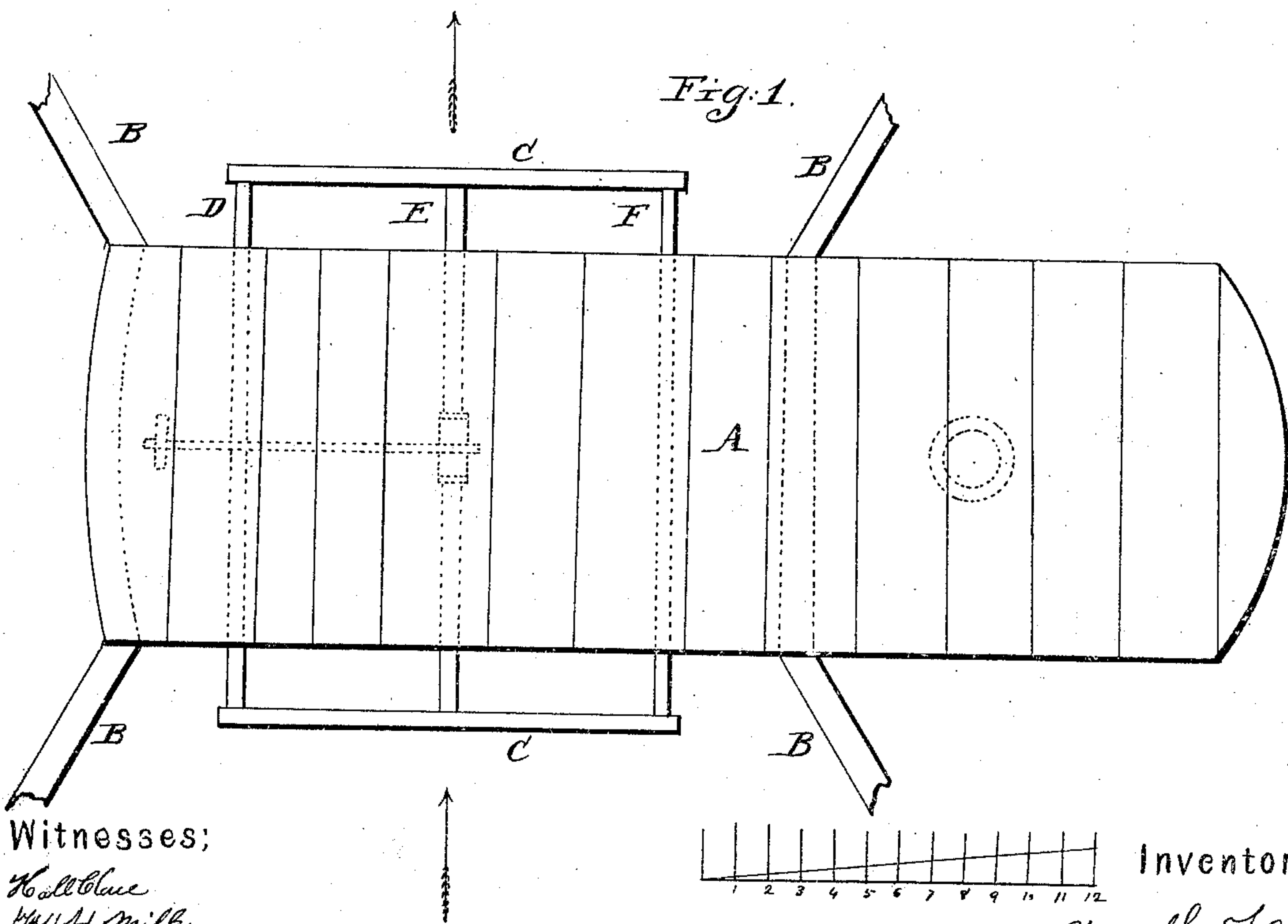
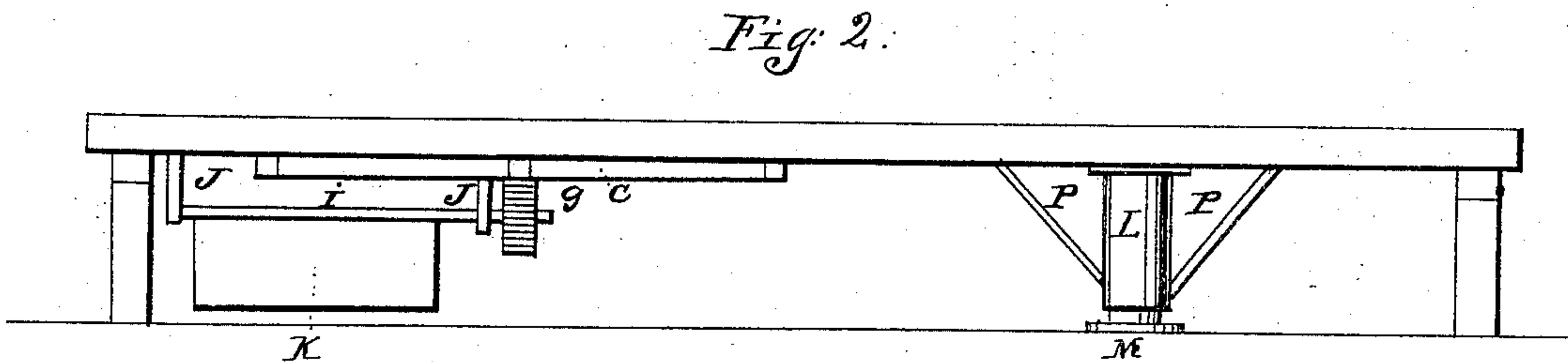
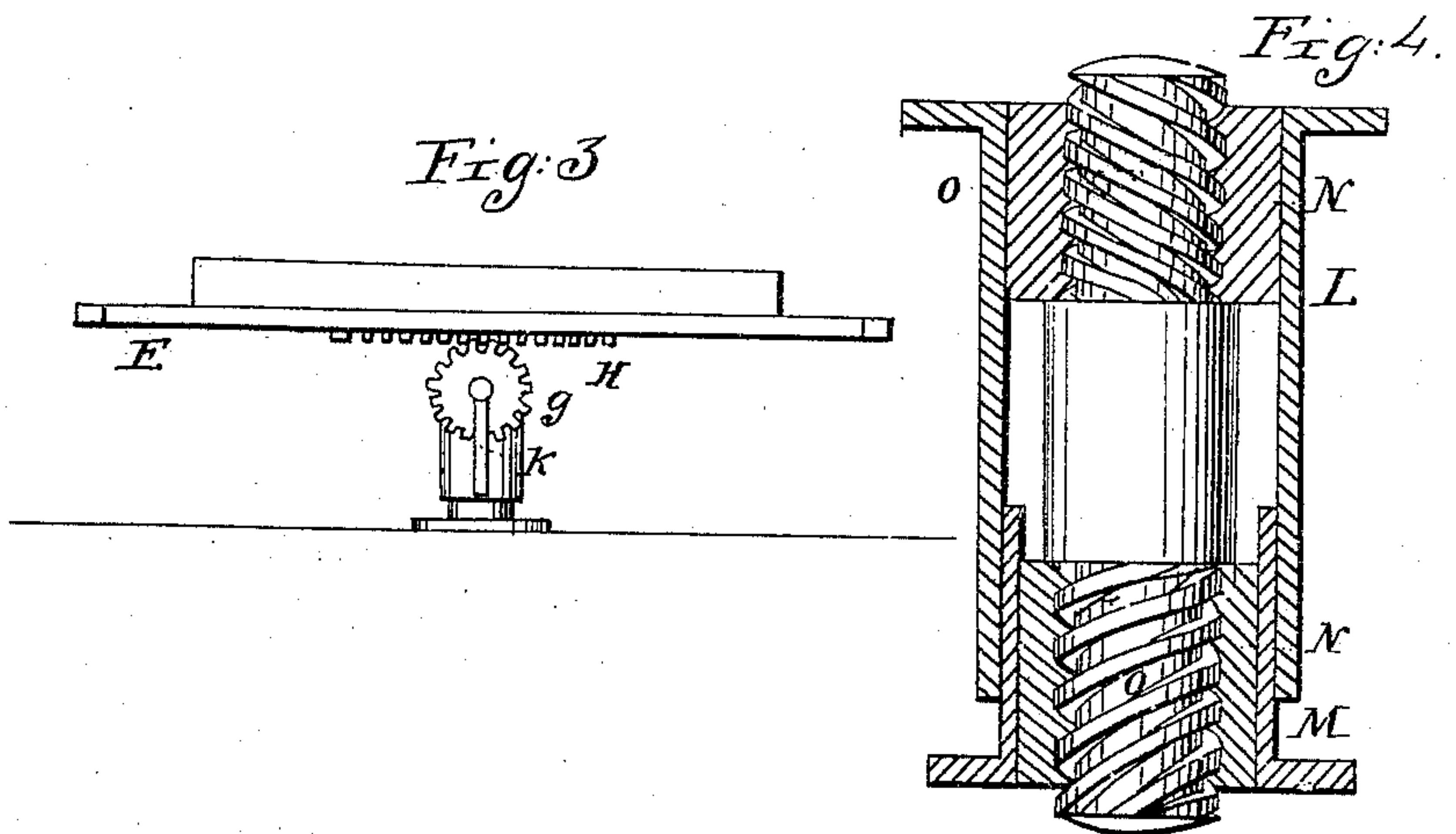


A. Koch. Draw Bridge.

N^o 35,765

Patented Jul 1, 1862.



Witnesses;
Holl Blue
W. H. Miller

Inventor:

August Koch

UNITED STATES PATENT OFFICE.

AUGUST KOCH, OF ROCKTOWN, PENNSYLVANIA.

IMPROVED SELF-ACTING DRAW-BRIDGE.

Specification forming part of Letters Patent No. **35,765**, dated July 1, 1862.

To all whom it may concern:

Be it known that I, AUGUST KOCH, of Rocktown, in the county of Lycoming, in the State of Pennsylvania, have invented a new and Improved Self-Acting Draw-Bridge; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a ground view; Fig. 2, a longitudinal elevation. Fig. 3 is a front view. Fig. 4 is a sectional view of the cylinders.

A is the floor of the bridge; B, guides to channel-way; C C, bumpers; D E F, cross-pieces to which the bumpers are secured; G, cog-wheel; H, tooth-rack secured to cross-piece E and fitting cog-wheel G; I, the shaft; J, the fastenings for shaft I; K, the rudder secured to shaft I; L, the cylinder; M, a smaller cylinder fitting in cylinder L. N N are nuts, one with a right and the other a left handed screw. O O are screws with three threads, one a right and the other a left, fitting nuts N N with sufficient pitch to allow them to run down by their own weight. P P are braces.

The operation is clear from the foregoing that the boat turning the bridge in its passage is raised by the screw in the cylinders, and the screw being of sufficient pitch to allow it to come back can only find its resting-place when it is in a line with the roadway.

What I claim as my invention, and desire to secure by Letters Patent for the bridge, is—

The right and left handed action of the screw with three threads (more or less) with sufficient pitch to allow the weight of the bridge to run it back when it is opened, and also the cylinders, fitting one in the other, to keep the screw at its place and giving strength to the same, also the opening by a rudder, as herein described, or anything else substantially the same, and which will produce the intended effect.

AUGUST KOCH.

Witnesses:

W. H. H. MILLER,
H. McCLURE.