

J. KOPLIN.

BLACKSMITHS' FORGING HAMMERS.

No. 176.867.

Patented May 2, 1876.

Fig. 1.

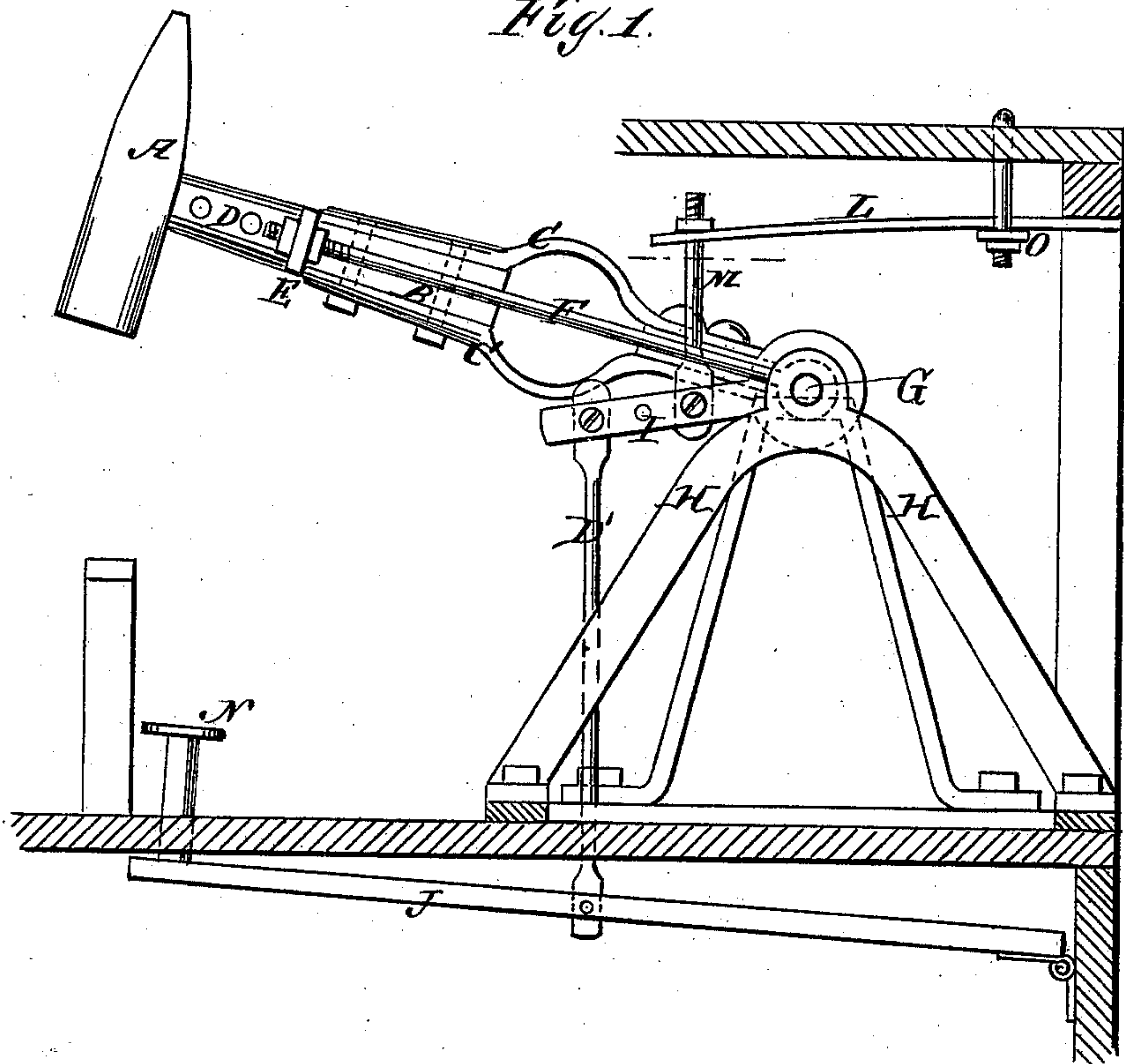
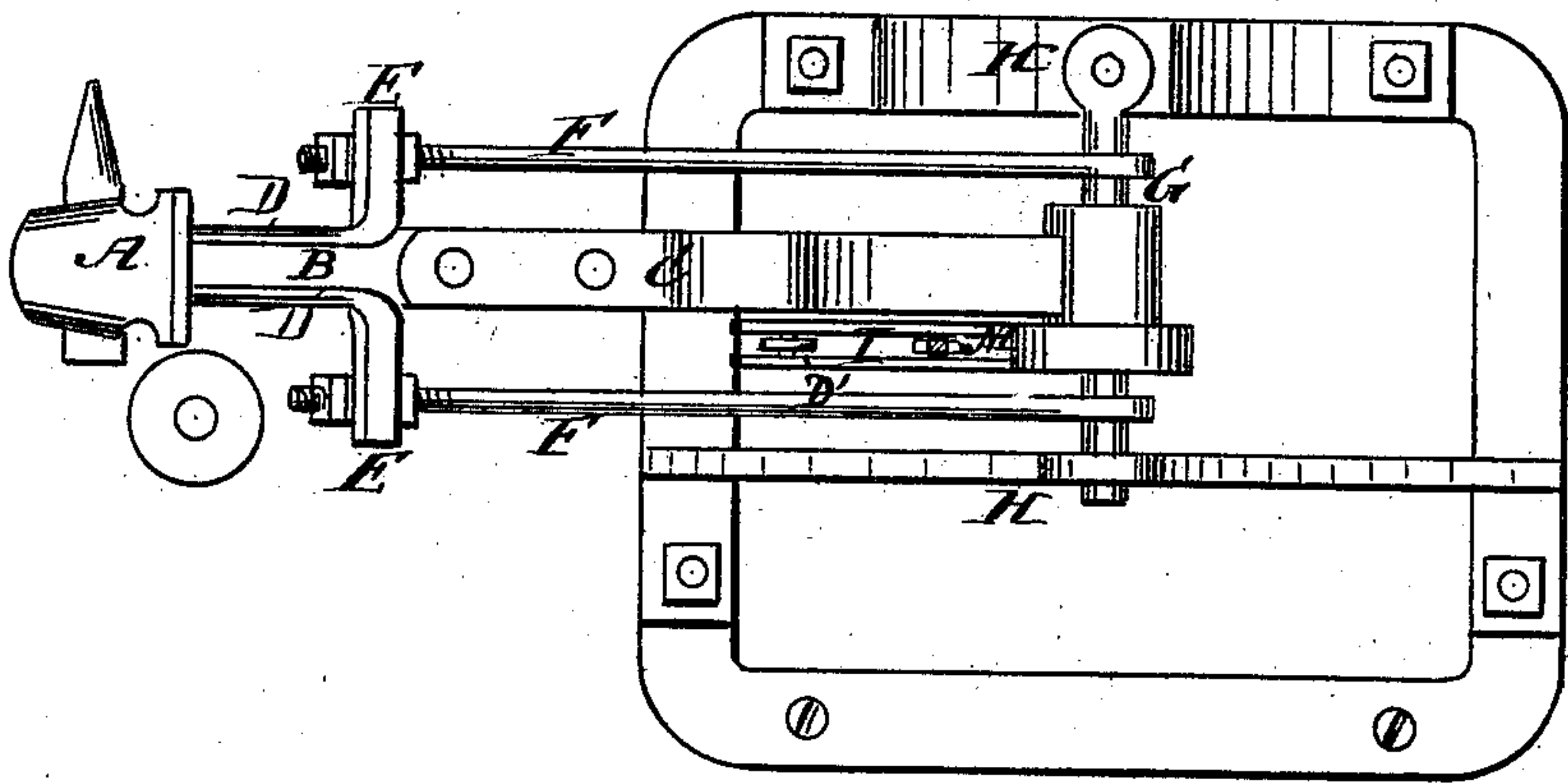


Fig. 2.



WITNESSES:

E. Wolff.
John Goethals

INVENTOR:

J. Koplin
BY
Munn & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE

JOHN KOPLIN, OF REED'S LANDING, MINNESOTA.

IMPROVEMENT IN BLACKSMITHS' FORGING-HAMMERS.

Specification forming part of Letters Patent No. **176,867**, dated May 2, 1876; application filed March 6, 1876.

To all whom it may concern :

Be it known that I, JOHN KOPLIN, of Reed's Landing, in the county of Wabasha and State of Minnesota, have invented a new and Improved Foot-Power Hammer, of which the following is a specification:

My invention consists of the construction and arrangement of the apparatus whereby a sledge-hammer is worked by a foot-lever and springs, all as hereinafter described.

Figure 1 is a sectional elevation of the machine, and Fig. 2 is a top view.

Similar letters of reference indicate corresponding parts.

A is the hammer, in which is a short wooden helve, B, which is bolted between the two metal arms C, and confined between the two side straps D, which extend a short distance along the helve from the hammer, and are connected, by the strong lugs E and rods F, with the pivot-shaft G, to which the arms C are also attached, making a substantial connection, calculated to sustain the shocks of the hammer successfully. The shaft G is mounted in bearings on the upright supports H, and has an arm, I, to the outer end of which the

foot-treadle J is connected by the rod D', and near the shaft it is connected to the spring L by the rod M, the spring being to raise the hammer after striking a blow, and the treadle being to force the hammer down by the foot on the foot-piece N.

The tension of the spring is regulated by the adjusting-bolt O and the nut on the rod M.

The rods M and D' may be shifted along the arm I, to vary the action of the hammer for different cases.

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

1. The hammer A, metal straps D, and helve B, metal bars C, rods F, and pivot-shaft G, combined and arranged substantially as specified.

2. The hammer A, helve B C D, shaft G, spring L, arm I, and foot-treadle J, combined and arranged substantially as specified.

JOHN KOPLIN.

Witnesses:

LOUIS E. HANNEMAN,
HUGH DOUGLAS.