

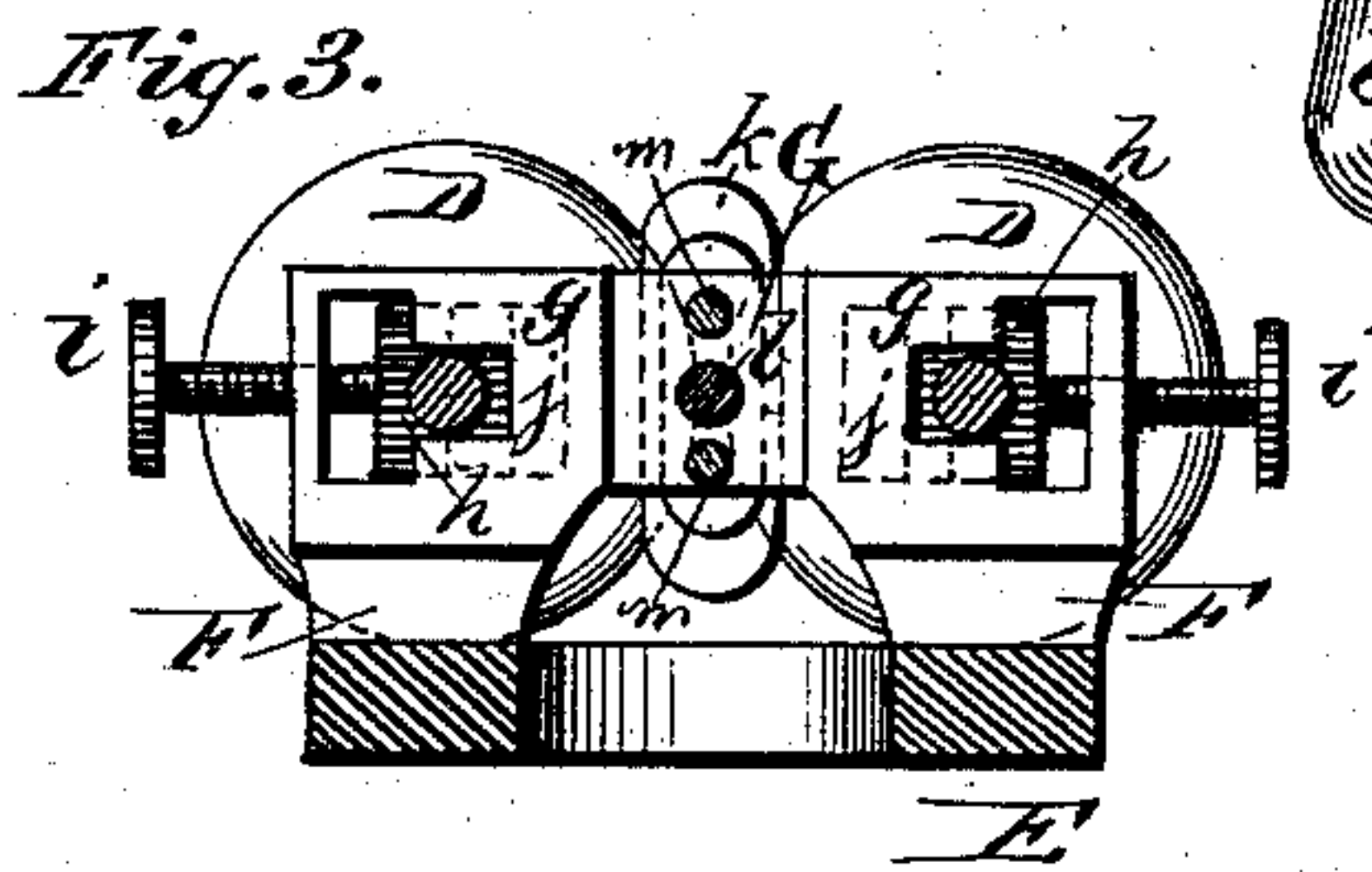
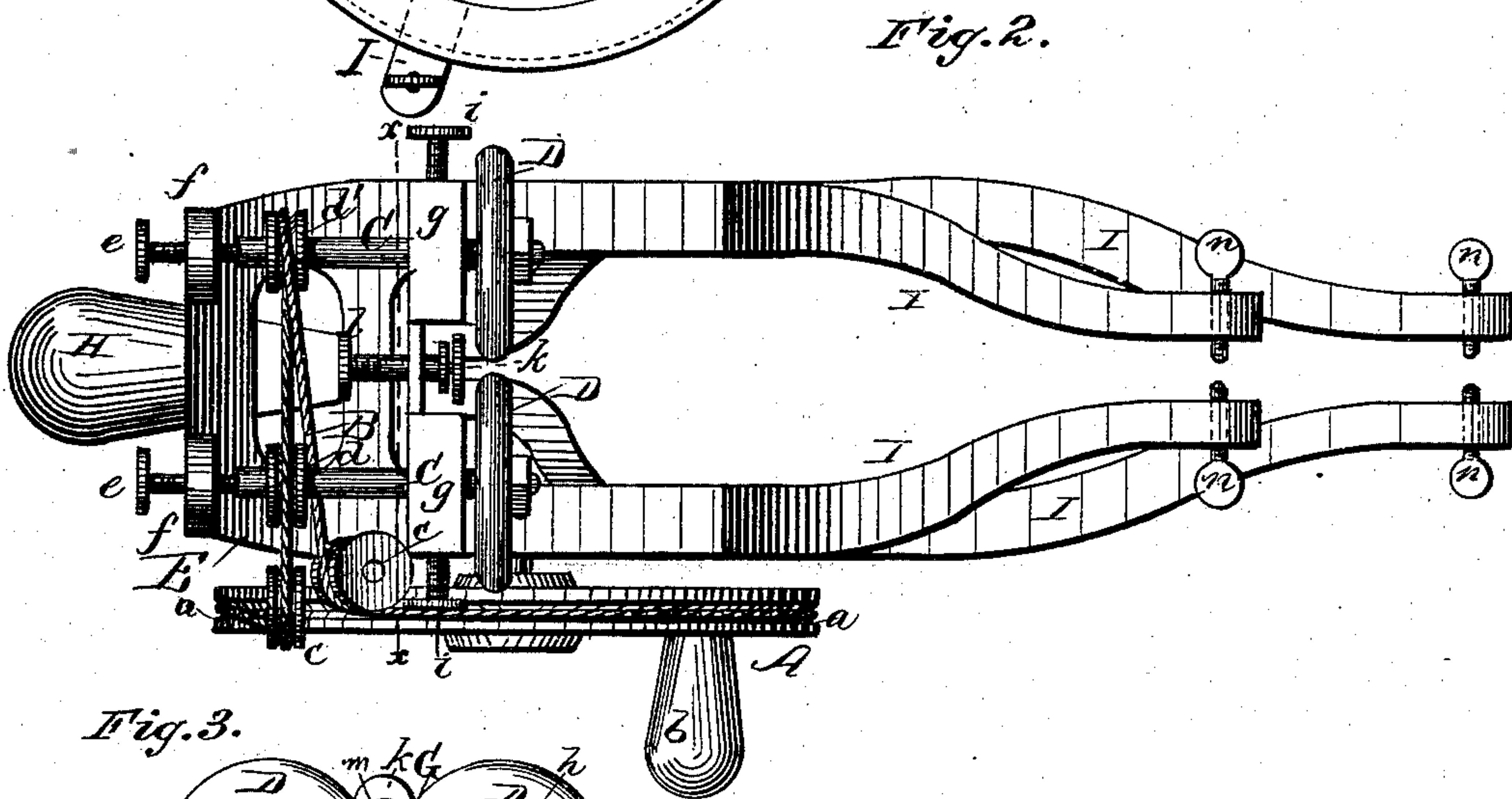
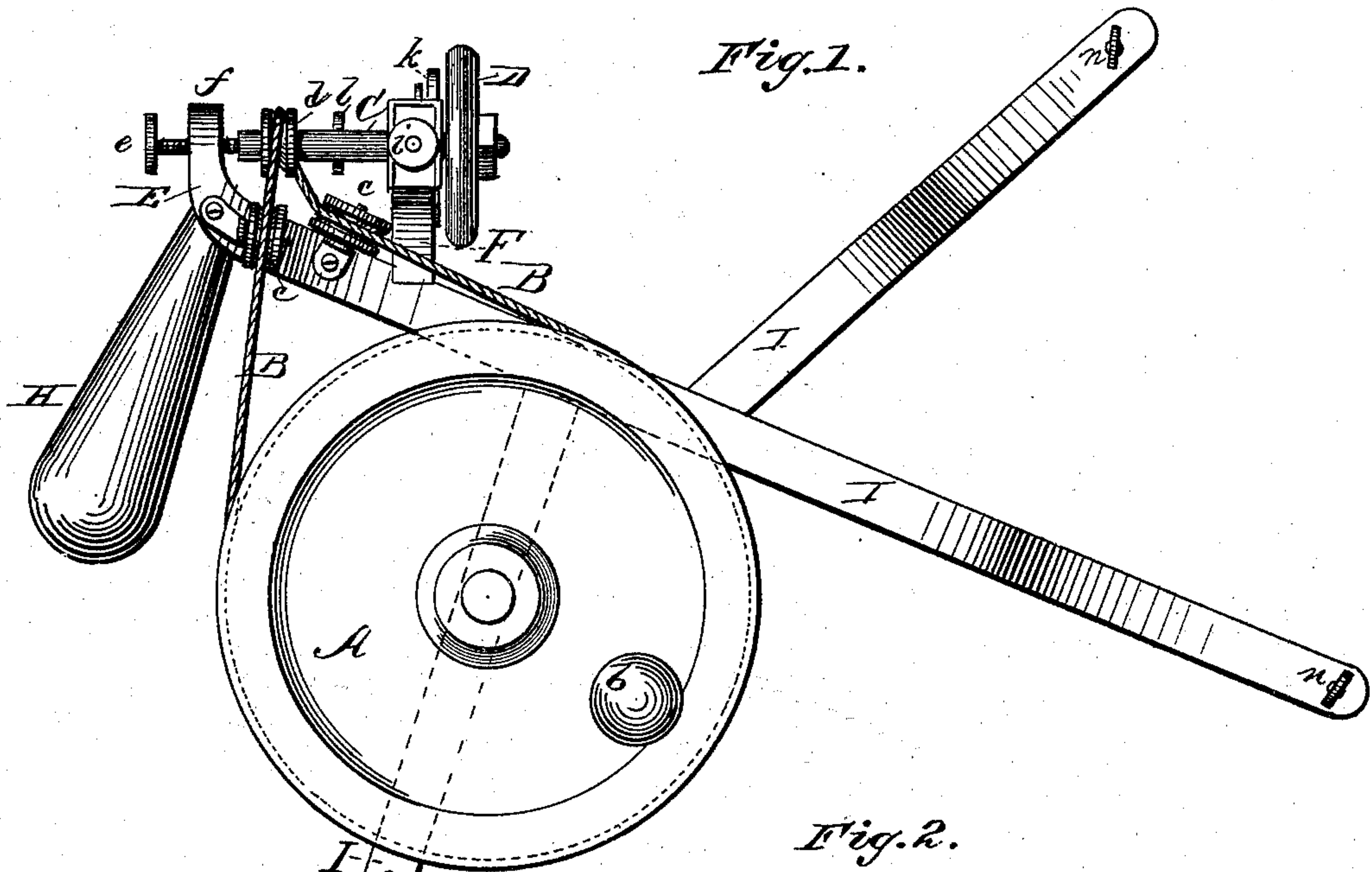
(Model.)

H. FAIRBROTHER.

Machine for Dressing Saw Teeth.

No. 239,606.

Patented April 5, 1881.



Witnesses:

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UNITED STATES PATENT OFFICE.

HARLEY FAIRBROTHER, OF CONNEAUT, OHIO.

MACHINE FOR DRESSING SAW-TEETH.

SPECIFICATION forming part of Letters Patent No. 239,606, dated April 5, 1881.

Application filed June 16, 1880. (Model.)

To all whom it may concern:

Be it known that I, HARLEY FAIRBROTHER, of Conneaut, in the county of Ashtabula and State of Ohio, have invented certain new and useful Improvements in Machines for Dressing Saw-Teeth; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 the letters of reference marked thereon, which form a part of this specification.

This invention relates to an improvement in machines for dressing saw-teeth, having for its object to improve the construction and operation of the same; and it consists in the construction and arrangement of parts, as will be hereinafter more fully set forth.

In the annexed drawings, Figure 1 is a side elevation; Fig. 2, a plan view; Fig. 3, a transverse section on the line *x x* of Fig. 2.

Like reference-letters indicate like parts.

A represents the operating-wheel, provided with a groove, *a*, around its periphery, and having a handle, *b*, attached to one of its faces, by which means the wheel is revolved. Around this wheel passes the endless rope or belt B, which, after leaving the wheel, passes over the guide-pulleys *c c*, is twisted, and one part passes over the pulley *d*, and the other over pulley *d'*, secured upon the shafts C. These shafts C carry the emery-wheels D and are adjustable forward and back by means of the set-screws *e* passing through the ears *f* on the frame E.

Upon the frame E and extending upward therefrom are the standards F, to which is secured a cross-bar, G. To this cross-bar, on either end thereof, are secured journal-boxes *g*, in which work the sliding bearings *h*. These bearings are adjusted by means of set-screws *i* at one end and rubber cushions *j* at the other, by which means the emery-wheels may be brought close together or drawn apart, as desired.

Upon the cross-bar G is arranged a stop, *k*, adjusted by means of the set-screw *l*, and maintained in a proper position by means of the rods *m*, sliding in openings in the cross-bar.

H indicates a suitable handle attached to the frame E, by which means the device is held in position by the operator when in use.

I indicates three or more sets of arms, of the form shown, having the set-screws *n* at their outer ends.

By this arrangement it will be seen that the sides of saw-teeth, near their points, may be dressed to the desired shape after the teeth have first been upset.

In the drawings I have shown the device adapted to dress upright saws; but it is obvious that the same may be applied to dress circular saws, in which event a slight change in the angle of the arms I will be made in order to properly grasp and hold the saw.

It is also obvious that, instead of emery-wheels, circular files or other devices that will dress the sides of the teeth near the points may be used.

The operation of the device is as follows: The saw is placed between the arms I, and being properly adjusted is held in position by means of the set-screws *n*. The point of the tooth to be dressed rests against the adjustable stop *k*, just back of the emery-wheels D, the edges of said wheels bearing against the sides of the tooth at the desired point. The driving or operating wheel is then revolved, which, by means of the cord or belt and intermediate pulleys, revolves the emery-wheels, and the dressing is completed.

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

In a saw-tooth dresser, the combination, with the frame E, having handle H, arms I, driving-wheel A, and pulleys *c c*, of the cross-bar G, provided with adjustable stop *k*, having set-screw *l*, and the adjustable shafts C, carrying the pulleys *d d'*, and dressing-wheels D D, substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

HARLEY FAIRBROTHER.

Witnesses:

PETER B. DOTY,
ALLEN M. COX.