

T. Longking *Cleaning Daguerreotype Plates.*

N^o 10475.

Patented Jan. 31, 1854.

Fig. 2.

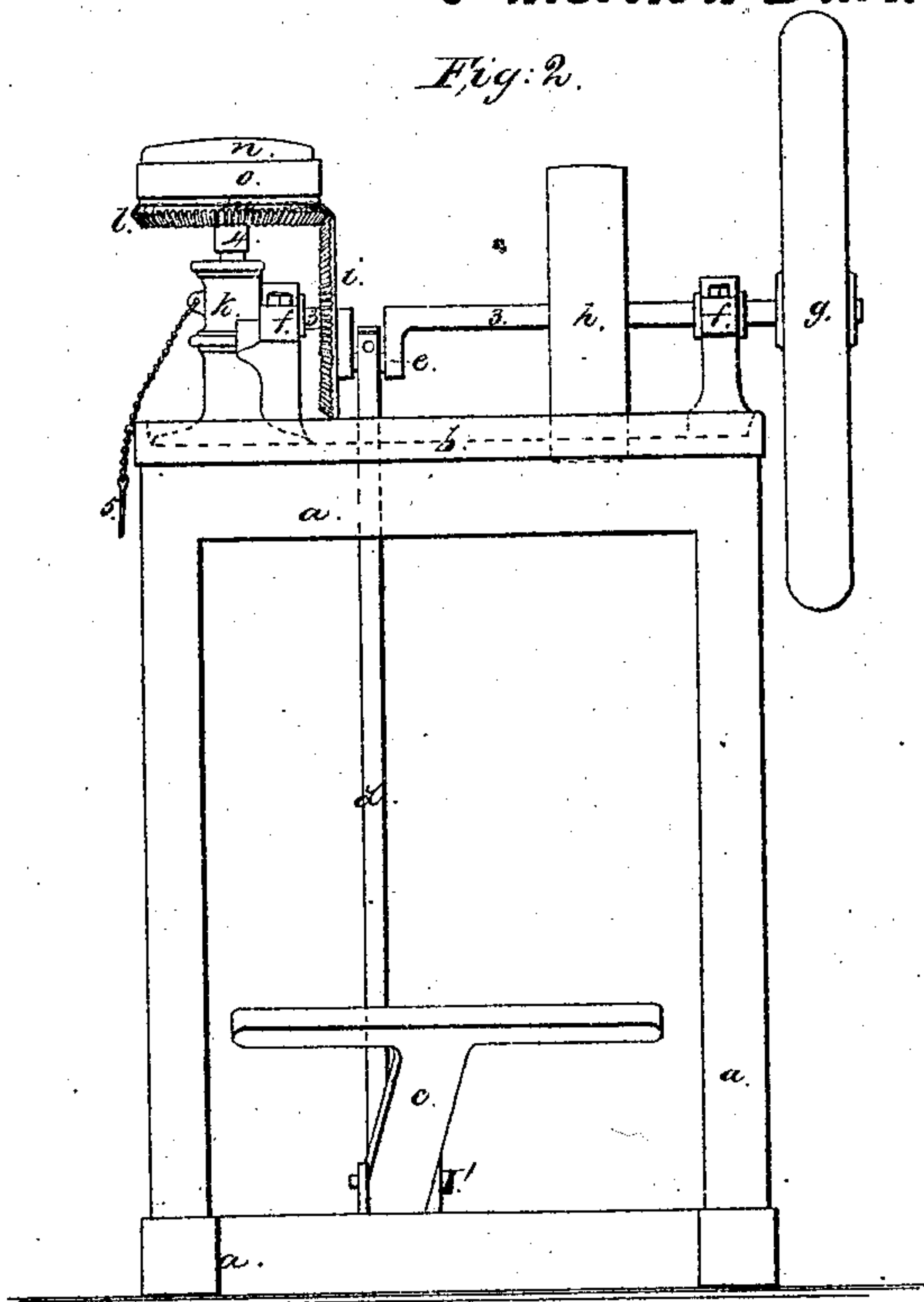


Fig. 3.

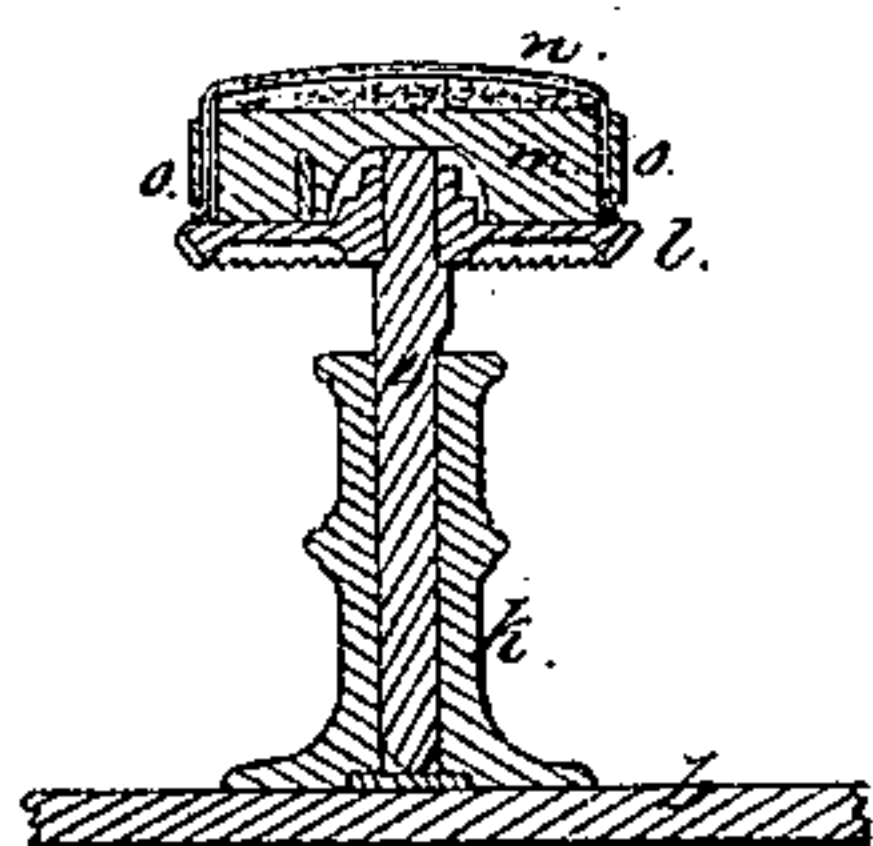
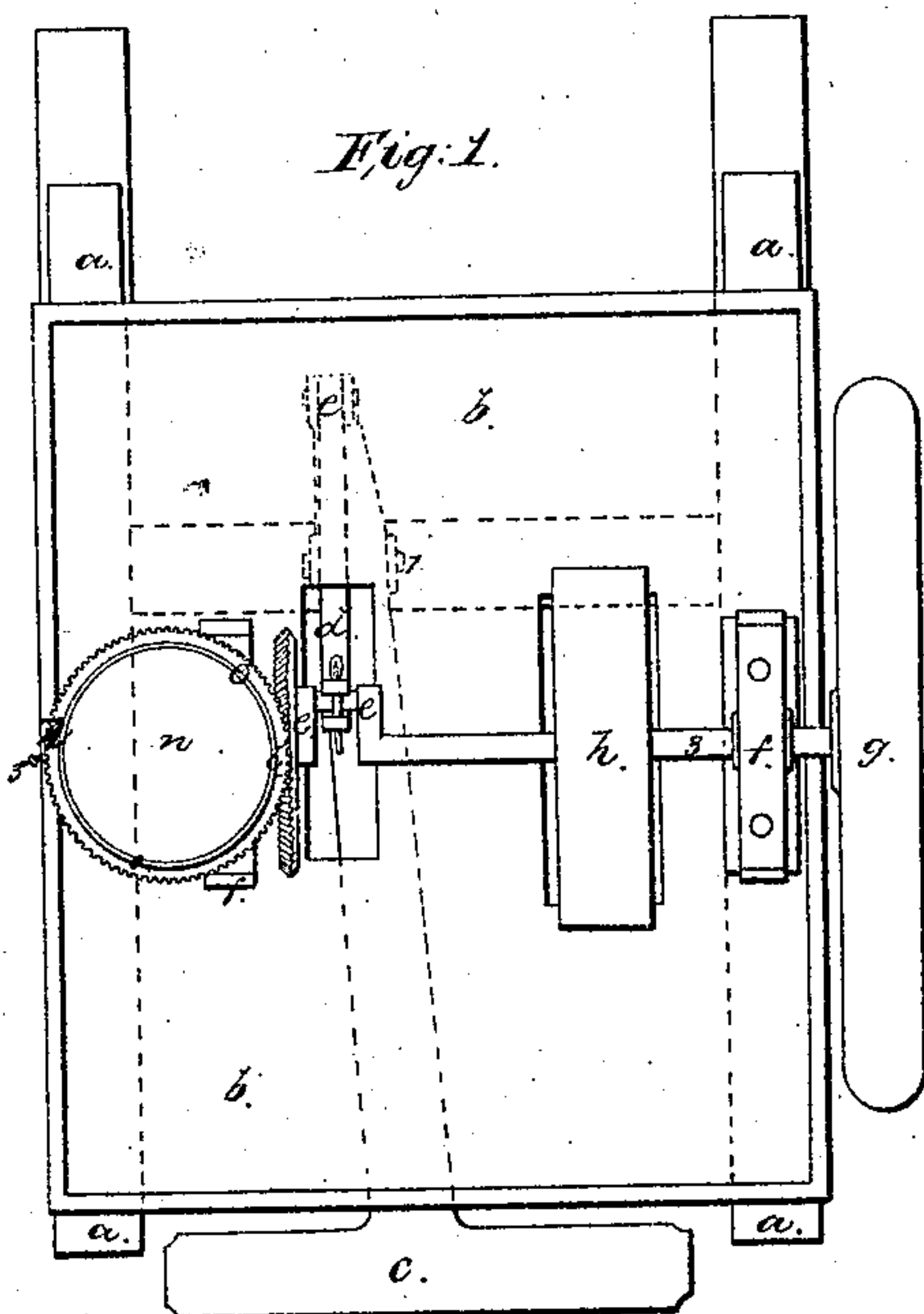


Fig. 1.



Witnesses:

Peter Van Schaack

Samuel W. Gerrell

Inventor:

Thos Longking

UNITED STATES PATENT OFFICE.

THOMAS LONGKING, OF BROOKLYN, NEW YORK.

IMPROVED APPARATUS FOR CLEANING AND BUFFING DAGUERREOTYPE-PLATES.

Specification forming part of Letters Patent No. **10,475**, dated January 31, 1854.

To all whom it may concern:

Be it known that I, THOMAS LONGKING, manufacturer of daguerreotype apparatus, of Brooklyn, in the county of Kings and State of New York, have invented and made certain new and useful Improvements in Apparatus for Cleaning or Scouring and Buffing Daguerreotype-Plates; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification, wherein—

Figure 1 is a plan. Fig. 2 is a front elevation, and Fig. 3 is a section through the cleaning-pad.

The like marks of reference denote the same parts in all the figures.

The nature of my said invention consists in means for cleaning the plate previous to buffing. This has heretofore been done by hand, the operator using a piece of canton-flannel, on which he puts rotten-stone and oil or similar cleaning material and rubbing the daguerreotype-plate all over with the same; and for this purpose a plate-holder is used that can be turned around with one hand, while the plate is cleaned with the other. To accomplish the same object I use a rotary cushion, over which a cover of canton-flannel or similar substance is put and secured by a ring, the daguerreotype-plate being applied to the rotating cushion while held in a proper plate-holder, and in connection with this cleaning-cushion I use a buffing-wheel to finish the polishing of the plate.

a is a suitable frame, supporting a bed-plate *b* and carrying a treadle *c* on a fulcrum *l*.

d is a pitman, jointed at 2 to the treadle and passing through an opening in the bed *b* to a crank *e* on a horizontal shaft 3, supported in journals *f*, to the bed *b*.

g is a fly-wheel, and *h* is a buffing-wheel, which may be either conical or cylindrical.

i is a miter-wheel on the end of the shaft 3.

k is a step or column receiving a vertical spindle 4, that sets at the bottom on a steel plate (see Fig. 3) and carries near the top a miter-wheel *l*, matching to the miter-wheel *i*.

Above the wheel *l* is a block *m*, over which is a cushion stuffed with proper material; but I prefer that sponge should be used for this purpose. Over this cushion I lay a piece of canton-flannel or similar material *n* and secure the same by sliding on a ring *o*, which arrangement gives the facility of changing the cleaning fabric when worn out or dirty. By these means I am enabled to clean plates by placing on the cover *n* rotten-stone and oil or similar cleaning material and applying the daguerreotype-plate thereto, while the cushion is rotated by the foot applied to the treadle *c*, and when the buffing-wheel is in use the cleaning-cushion may be disconnected to avoid friction by raising the same and inserting a pin 5 through a hole made for that purpose through the shaft.

I do not claim the buffing-wheel nor any of the parts separately; but

What I desire to secure by Letters Patent is—

1. Fitting the revolving cushion *m* with the ring *o*, by which the canton-flannel or similar covering is secured to the cushion or removed and a new cover substituted when required, as specified.

2. The arrangement of the gearing and shafts by means of which the cleaning-cushion is combined with the buffing-wheel, in the manner substantially as set forth.

In testimony whereof I have hereunto set my signature this 5th day of October, 1853.

THOS. LONGKING.

Witnesses:

PETER VAN SCHAACK,
LEMUEL W. SERRELL.