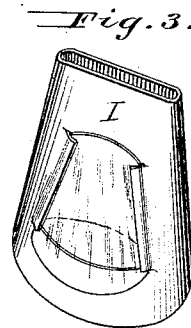
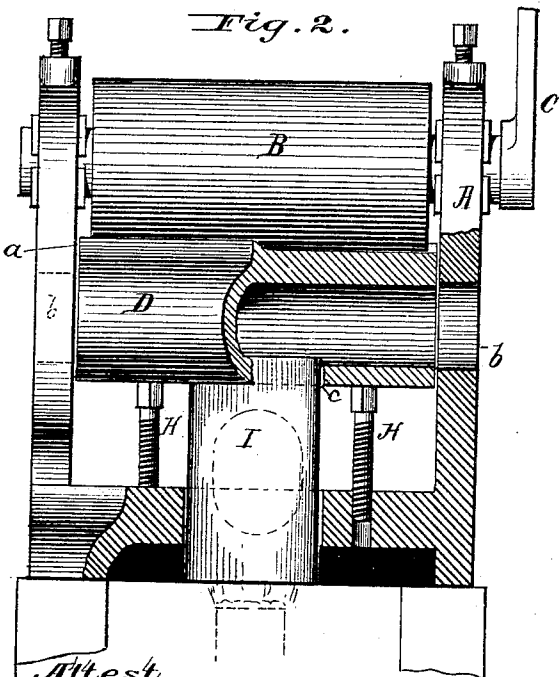
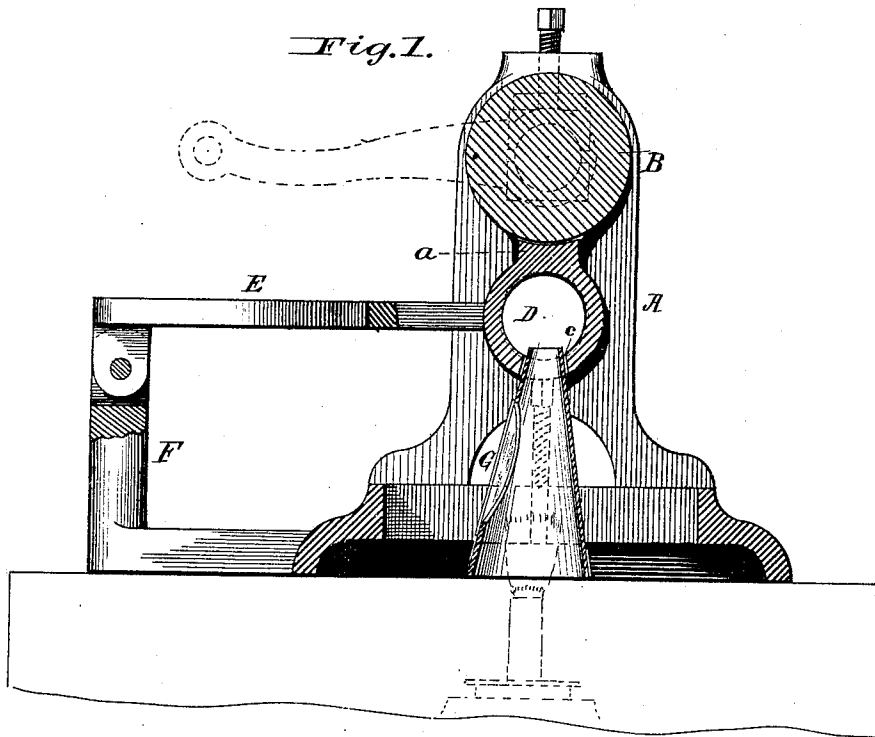


G. B. HALL & DeW. LASHER.

PHOTOGRAPH BURNISHER.

No. 172,625.

Patented Jan. 25, 1876.



Attest.
W. L. Perrine
A. C. Cassell

Inventors.
Geo. B. Hall.
DeWitt Lasher.
By H. N. Pinket, Atty.

UNITED STATES PATENT OFFICE.

GEORGE B. HALL AND DE WITT LASHER, OF FORT PLAIN, NEW YORK.

IMPROVEMENT IN PHOTOGRAPH-BURNISHERS.

Specification forming part of Letters Patent No. **172,625**, dated January 25, 1876; application filed November 24, 1875.

To all whom it may concern:

Be it known that we, GEORGE B. HALL and DE WITT LASHER, of Fort Plain, in the county of Montgomery and State of New York, have invented certain new and useful Improvements in Machines for Burnishing Photographs, whereof the following is a full, clear, and exact description, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical cross-section; Fig. 2, a rear and partly sectional elevation, and Fig. 3 a perspective view of the lamp-chimney detached.

This invention consists in an improvement in the construction of the burnishing-surface, and in means for heating it, by which latter is prevented the condensation of vapors on the roller, and the use of a cheaper fuel is permitted.

In the several figures of the drawings, similar letters of reference indicate like parts.

A represents a cast-iron frame suitably mounted. In adjustable bearings is fixed a roller, B, having a crank-handle, C, for revolving it. Beneath this roller is placed a concave burnishing-surface, *a*. By making this surface concave, its width can be increased from that of the ordinary machine to about three-fourths of an inch and more, so that it will not be necessary to run the picture through more than once or twice, inasmuch as the picture passes over a greater extent of heated surface at one time than has been obtainable heretofore.

This burnishing-surface may form part of a tubular burnisher, D, which is attached to, or formed with, a plate or lever, E, that is pivoted to a post, F, on the frame A. The heater D is adjustable underneath the roller by means of screws H H, and openings *b b* are made in the standards of frame A, to be in line with the hollow interior of heater D, so as to provide a flue, open at both ends. An opening, *c*, is made in the lower part of the heater, into which is inserted the upper end of

a metallic chimney, I. This chimney is provided with an opening covered with mica, so that the flame may be watched. A common kerosene-lamp is placed so that its flame may ascend this chimney.

Heretofore it has been the practice to heat burnishers by means of an alcohol-lamp. This was expensive, and as the heater was constructed the vapors of the alcohol would be condensed on the rollers, forming drops of moisture, that would come in contact with the burnishing-surface and soil it, and so spoil the picture. These defects, or evils have been remedied in this invention by the use of the tubular heater, for it will be understood that its tubular formation constitutes it a flue, whereby vapors are driven off and so prevented from condensing on the roller.

The burnishing-surface *a* may be of steel or chilled iron. Its concave surface will prevent the scratching of the picture and greatly facilitate the finishing of photographs.

What we claim is—

1. In a photograph-burnisher, the adjustable tubular burnisher D, in combination with the openings *b* in the standards A, the whole forming a flue, substantially as and for the purpose specified.

2. In a photograph-burnisher, the combination of the adjustable pivoted or hinged tubular burnisher D, concave burnishing-surface *a*, forming part thereof, and the chimney I, constructed and arranged substantially as shown and described.

3. The non-rotating tubular burnisher D, vertically adjustable within the frame of a photograph-burnisher, and provided with a concave burnishing-surface, *a*, substantially as described.

GEORGE B. HALL.
DE WITT LASHER.

Witnesses:

D. C. SHULTS,
JOHN H. LYNCH.