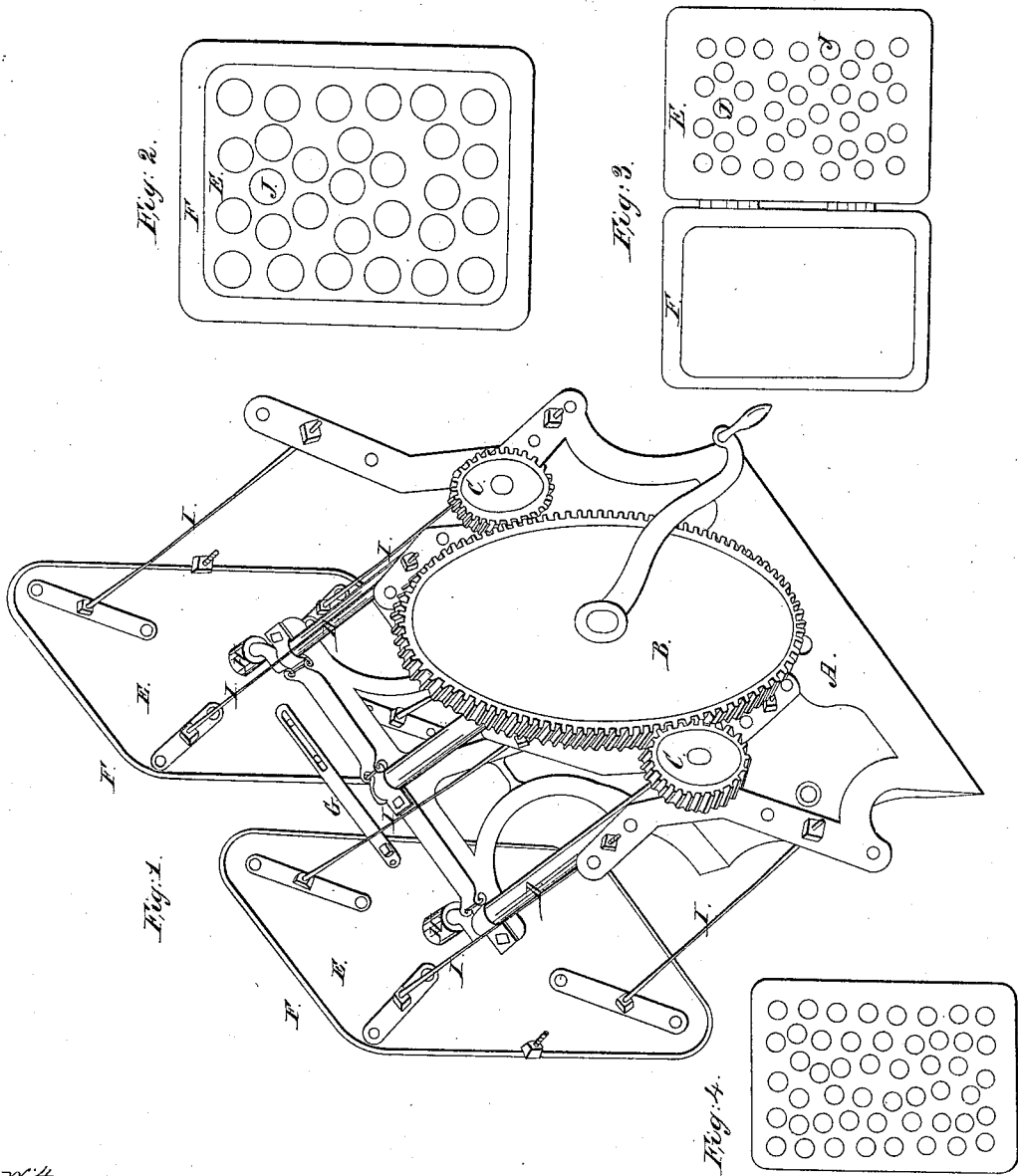


*C. Ketcham,*

*Daguerreotype-Plate Cleaner.*

*N<sup>o</sup> 20718.*

*Patented June 29 1858.*



*Witnesses:*

*A. Oliver  
C. J. F. J. J.*

*Inventor:*

*Charles Ketcham*

# UNITED STATES PATENT OFFICE.

CH. KETCHAM, OF PENN YAN, NEW YORK.

## MACHINE FOR CLEANING DAGUERRETYPE-PLATES.

Specification of Letters Patent No. 20,718, dated June 29, 1858.

To all whom it may concern:

Be it known that I, CHARLES KETCHAM, of Penn Yan, in the county of Yates and State of New York, have invented a new and useful Machine for Cleaning and Polishing Daguerreotype-Plates or other Materials; and I hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is perspective view of the whole. Fig. 2 is front view of the cleaner. Fig. 3 is front view of the cleaner with the clasp opened. Fig. 4 is front view of a perforated cleaner-plate.

The letters refer to the same parts in each figure.

A, Fig. 1, is the frame which may be made of wood but metal is preferable, the size of which is made to suit the size of the cleaners and may be made in any style to suit the artist. B the driver of spur, or other gear may be used when another position of the cleaner is required the size is regulated by the size of cleaners required and motion of the same; to this wheel B I apply the crank or it may be applied to the shaft, and if other power is used it may be applied to the shafts D and D, D and D, shafts with a crank at the end of length to suit the required motion of the cleaners in the place of a crank an eccentric may be used to produce the same motion. I, I, I, I, I, I, I, I, are springing braces that serve to hold the cleaners in position, and are attached to the backs of the cleaners, and extend to the arms of the frame to which they are firmly attached with nuts which will allow the cleaners to be adjusted at pleasure, when eccentrics are used instead of cranks, the braces may be left off if the eccentrics are large enough to hold the cleaners firm.

G is a bar extending from one cleaner to the other, its use is to prevent the cleaners from revolving with the shafts D, D; H, H, boxes attached to the parts of the cleaners represented by E in which the crank turns, if eccentrics are used this box is made larger in diameter and has a plate with a hole in the center to let the shaft pass through and it is fastened to the box by screws and serves to hold the eccentric in the box.

E, E, are the main plates of the cleaners and may be made of any suitable material as tin, brass, wood or iron to which parts represented by J Figs. 2 and 3 are attached or they may be perforated as represented in Fig. 4 so that the parts J may be inserted; this method is preferable when a substance that cannot be cemented is used to make the parts J such as cork, wire or other substance that may be used for the same purpose.

F is a clasp surrounding the plate E and is attached to it by hinges or otherwise and held in position by a thumbscrew or other device, its use is to hold the cloth or other substance that may be used to cover the parts J. F has teeth raised on the inner edge to stretch and hold the covering above-mentioned.

The parts J are better to be made of soft or elastic substance and should project beyond the clasp F so there will be no danger of damage by the clasp coming in contact with the plate while being cleaned. Instead of the parts J, one uniform surface may be used for some kinds of work the surface should project as J for the same reason.

Fig. 2, represents the cleaner closed in the manner to hold the covering.

Fig. 3, represents the cleaner opened to receive the covering.

The parts represented by J may not be covered for some kinds of work.

G is a bar extending from one cleaner to the other it is made fast at one cleaner and loose at the other, but attached by a joint that will allow the cleaners to work without being bound or held by it if one works ahead of the other, it may be attached to any part of the cleaners.

What I claim and desire to secure by Letters Patent is—

Cleaners made as specified with projections J as set forth; also the means for holding them in position with respect to each other, and the means for giving motion to the cleaners when arranged as specified.

CHARLES KETCHAM.

Witnesses:

A. OLIVER,  
CHAS. G. JUDD.