

J. B. Dunlop

Glass Cleaner.

N^o 63,870.

Patented Apr 16, 1867

Fig. 1

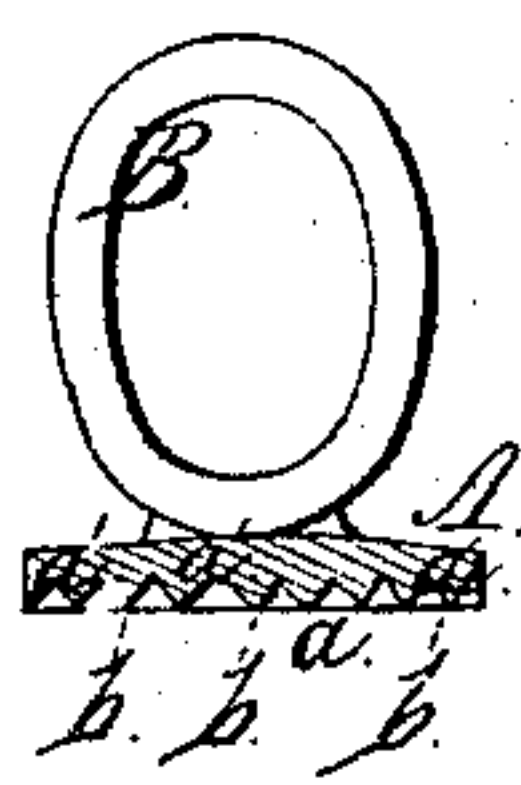
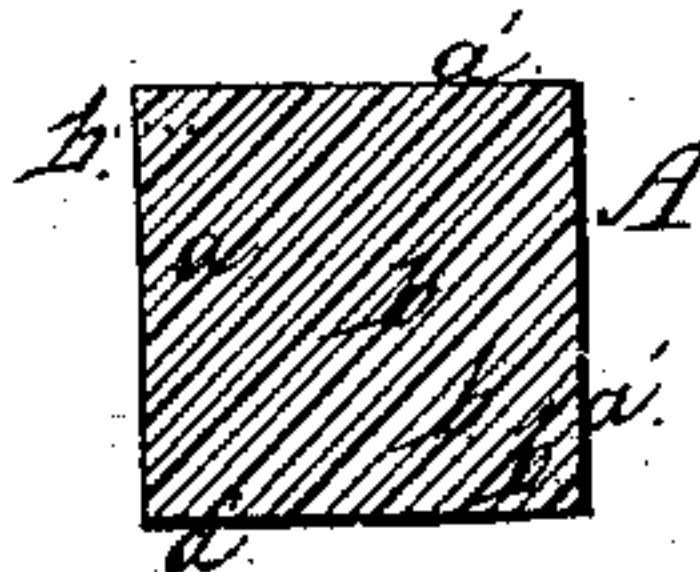


Fig. 2



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United States Patent Office

J. B. DUNLOP, OF MERIDEN, CONNECTICUT.

Letters Patent No. 63,870, dated April 16, 1867.

IMPROVED GLASS-CLEANER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. B. DUNLOP, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new and improved Glass-Cleaner; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a vertical section of my device for cleaning glass, etc.

Figure 2 represents an inverted plan or bottom view of the same.

The object of this invention is to provide an article for cleaning glass and other substances on the surface of which have accumulated hard stains of paint, dirt, etc. For this purpose I use a small plate of metal, such as hardened iron or steel, on the upper side of which I form a handle by which the cleaner is held. On the under surface or face of the cleaner I form flutes or V-shaped grooves which run diagonally across its face and form a series of knife edges thereon. Between each groove is left a flat surface as shown at *b* in the drawings, in order to prevent the glass or other article from being cut or scratched. When this cleaner is brought in contact with a pane of glass or other surface on which have accumulated stains of paint or other substance, and rubbed to and fro, a thorough cleaning thereof is accomplished.

A, in the drawings, represents my cleaner, which consists of a plate of metal. B represents the handle by which the cleaner is operated. *a* is the fluted or grooved surface, *a'* the V-shaped grooves, and *b* the space between the grooves. The handle and plate may be made in one piece or in separate pieces as desired. I do not limit myself to the precise form or method of construction herein shown, as they may be varied in many ways without departing from my invention.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent, as an improved article of manufacture, a glass-cleaner made substantially as described.

The above specification of my invention signed by me this 9th day of November, 1866.

J. B. DUNLOP.

Witnesses:

GEORGE A. FAY,
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