

W. L. WILLIAMS.

Boot-Cleaner.

No. 76,866.

Patented Apr. 14, 1868.

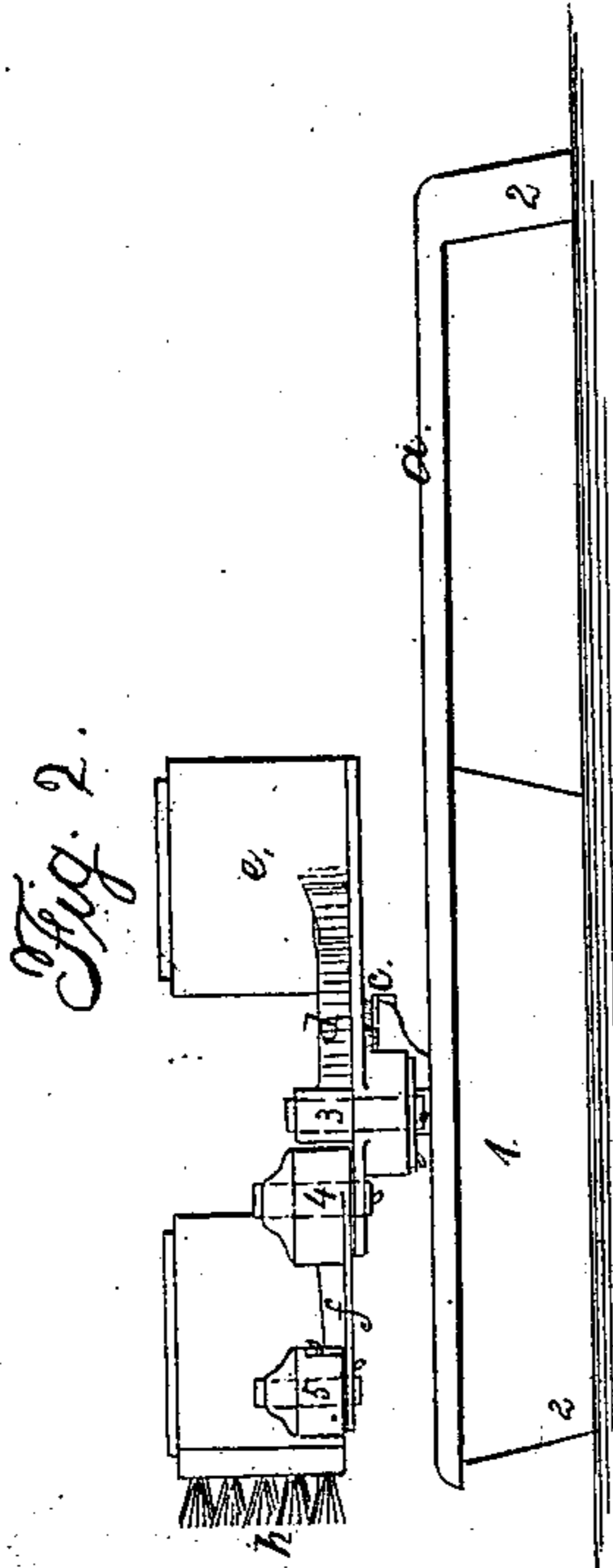
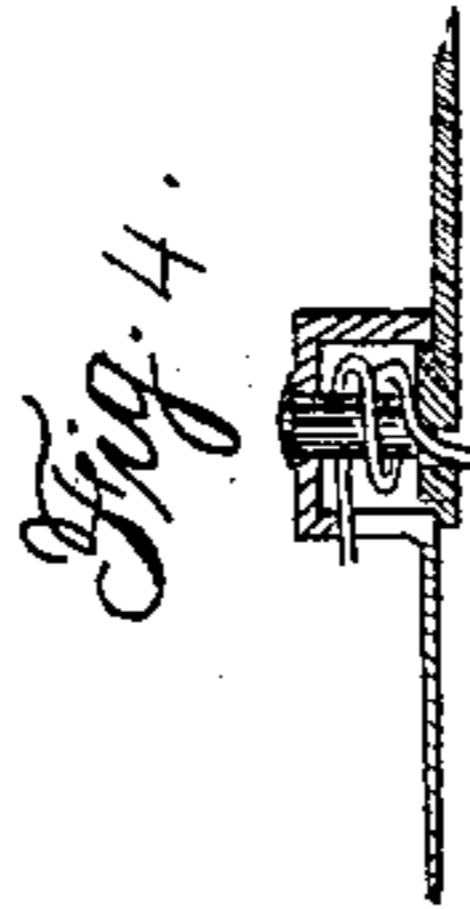
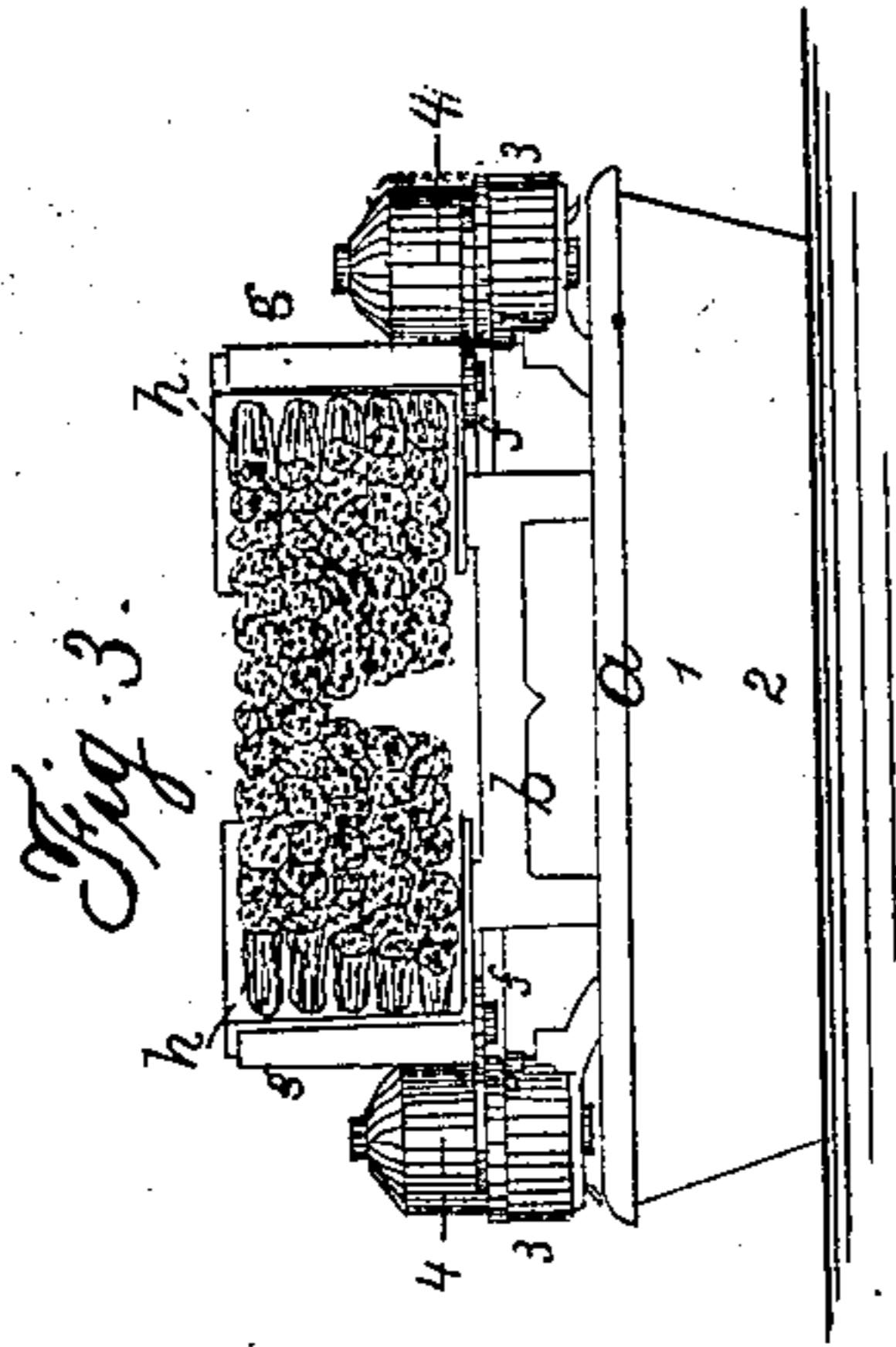
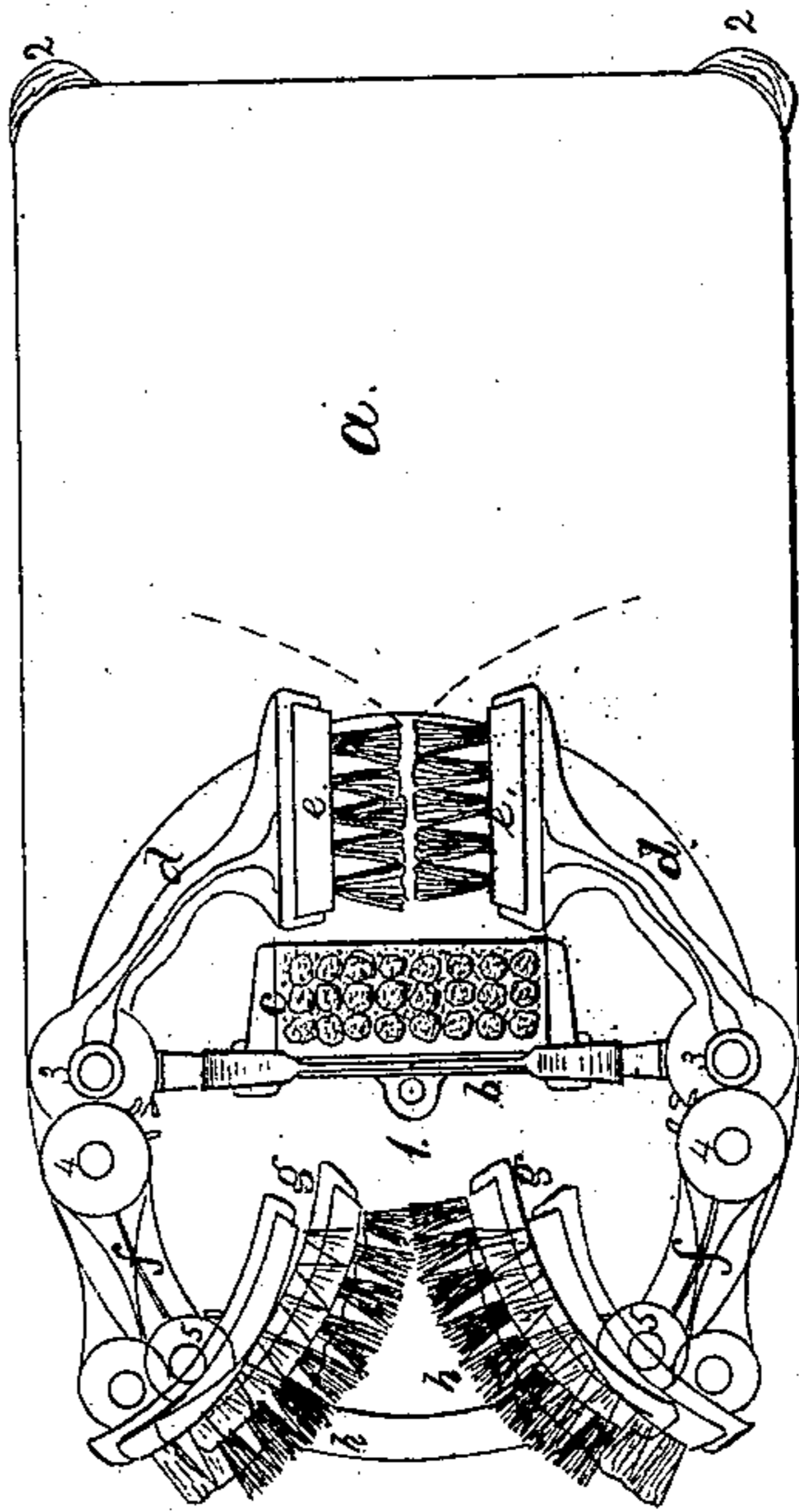


Fig. 1.



W. L. Williams

Witnesses

Geo. A. Walker
Chas. H. Smith

United States Patent Office.

WILLIAM L. WILLIAMS, OF NEW YORK, N. Y.

Letters Patent No. 76,866, dated April 14, 1868.

IMPROVED FOOT-SCRAPER.

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, WILLIAM L. WILLIAMS, of the city and State of New York, have invented, made, and applied to use, a certain new and useful Improvement in Foot-Scrapers; 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 drawing, making part of this specification, wherein—

Figure 1 is a plan of my scraper.

Figure 2 is a side elevation of the same.

Figure 3 is an end view, and

Figure 4 is a section of one of the joints separately.

Similar marks of reference denote the same parts.

The nature of my said invention consists in movable brushes kept to the foot by springs, in such a manner that the act of drawing the foot through the scraper shall cause said brushes to press on and remove the mud and dirt from the sides of the boot or shoe. This invention may be considered an improvement upon Letters Patent granted to me, March 29, 1859, for a foot-scraper.

In the drawing, *a* is a metallic platform, upon which the person stands with one foot while scraping the other, so that said scraper does not require to be fastened down, the weight of the person holding it steady. *1* is a cavity in said platform, receiving the ordinary scraper *b* and brush *c*, to act on the under side of the foot, and *2 2* are legs or cleats at the corners of the platform, to cause the same to stand firmly. *3 3* are centres, upon which arms *d d* are affixed, that carry brushes *e e* at their outer end. These brushes are upon tapering dovetail blocks, slidden into a corresponding recess formed at the end of each arm *d*, so that said blocks and brushes can be removed, and others substituted when worn out. The brushes are kept towards each other by means of a spring applied at the centres *3 3*, as represented in fig. 4. The arms *d d* are extended, and carry the centres *4 4*, receiving the arms *f f*, that are jointed, at *5 5*, to the plates *g g*, that are formed with recesses receiving the dove-tailed blocks of the brushes *h h*, (similar to the brush-blocks of *e*). The centres and joints *4 4* and *5 5*, are provided with springs similar to those shown in fig. 4, so that the brushes *h h* are kept towards each other. The brushes *h h* are themselves formed with longer bristles near the upper part than at the lower, so as to act on the upper part of the boot or shoe, near the side thereof, (see fig. 3.)

The operation will be apparent, for upon drawing the foot through the scraper, the sides of the boot or shoe are thoroughly brushed, and the manner in which the brushes *h h* are jointed, causes them to set closely up against the side of the foot, and accommodate themselves to the shape of the shoe. The red lines indicate the position of these brushes *h h* when partially separated.

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

1. The brushes *h*, jointed to the swinging arms *f*, and acting in the manner and for the purposes specified.
2. The swinging brushes *h*, in combination with the swinging arms *f*, scraper *b*, and brushes *e*, substantially as and for the purposes set forth.

Dated, this seventh day of October, A. D. 1867.

W. L. WILLIAMS.

Witnesses:

CHAS. H. SMITH,
GEO. D. WALKER.