

A. Ralph,
Boot Cleaner.

25 Sheets. Sheet 1.

Nº 33,491.

Patented Oct. 15, 1861.

Fig: 1

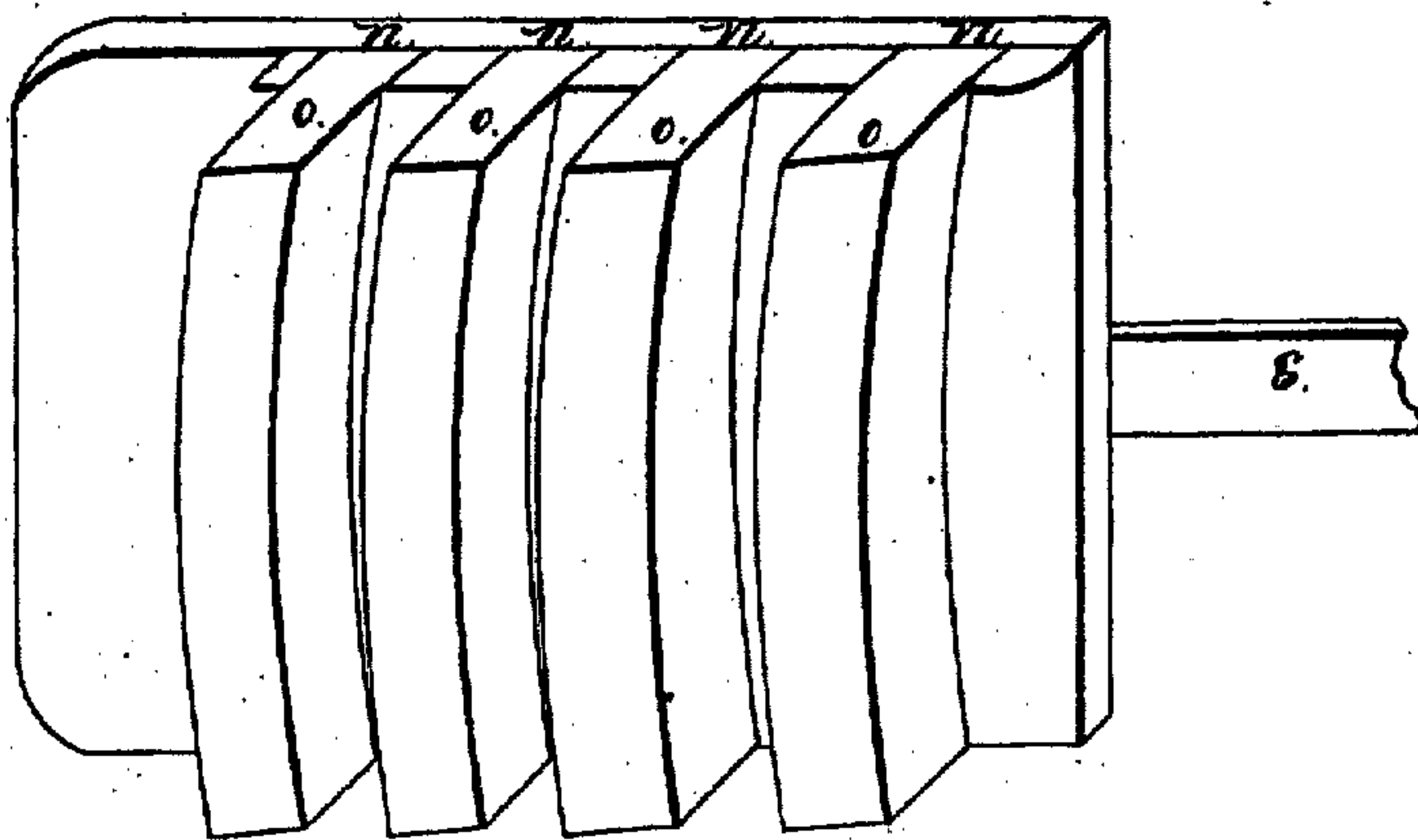
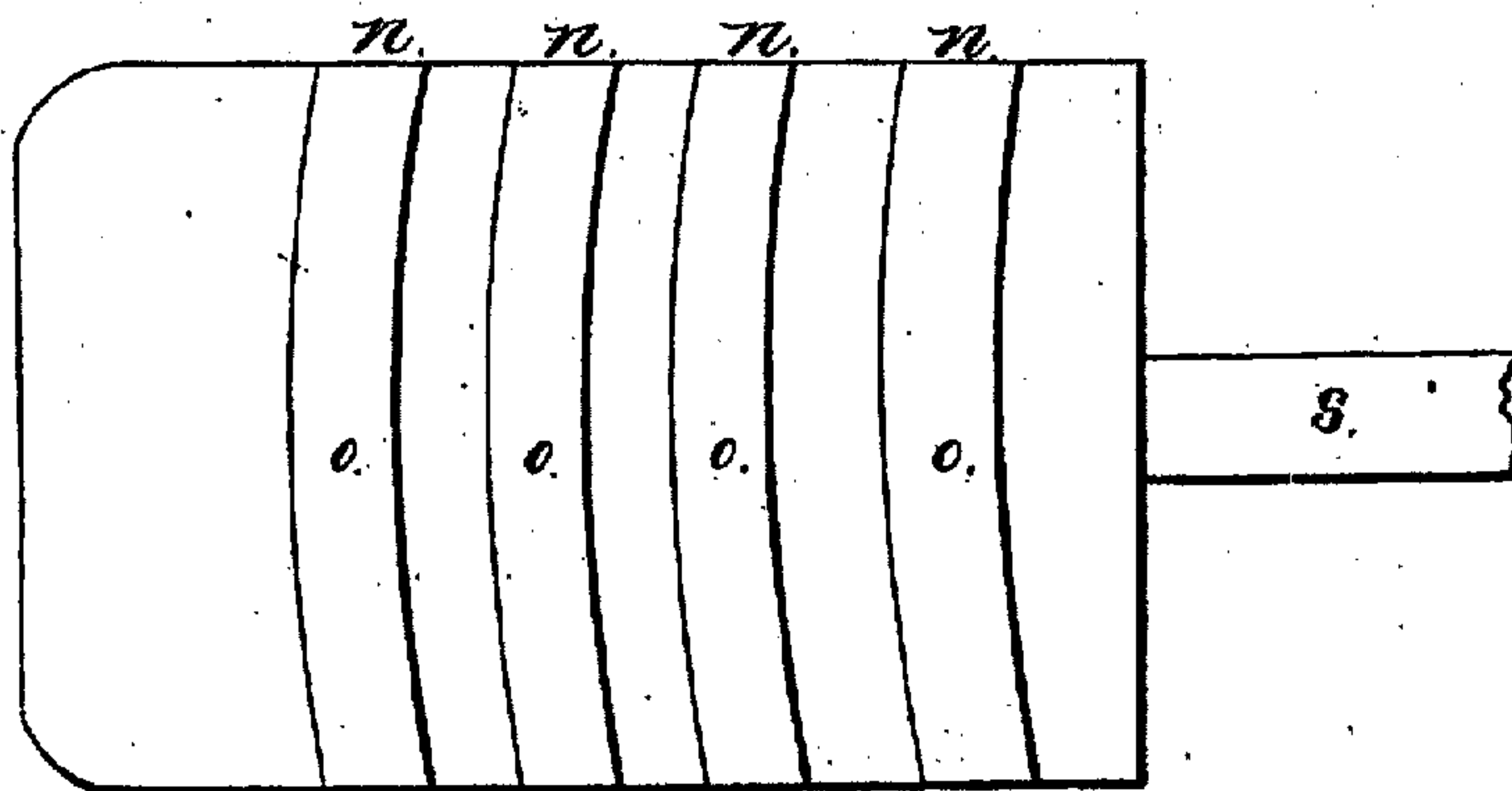


Fig: 2.



Witnesses:

Wm. B. Viggins,

S. A. Hendrickson

Inventor:

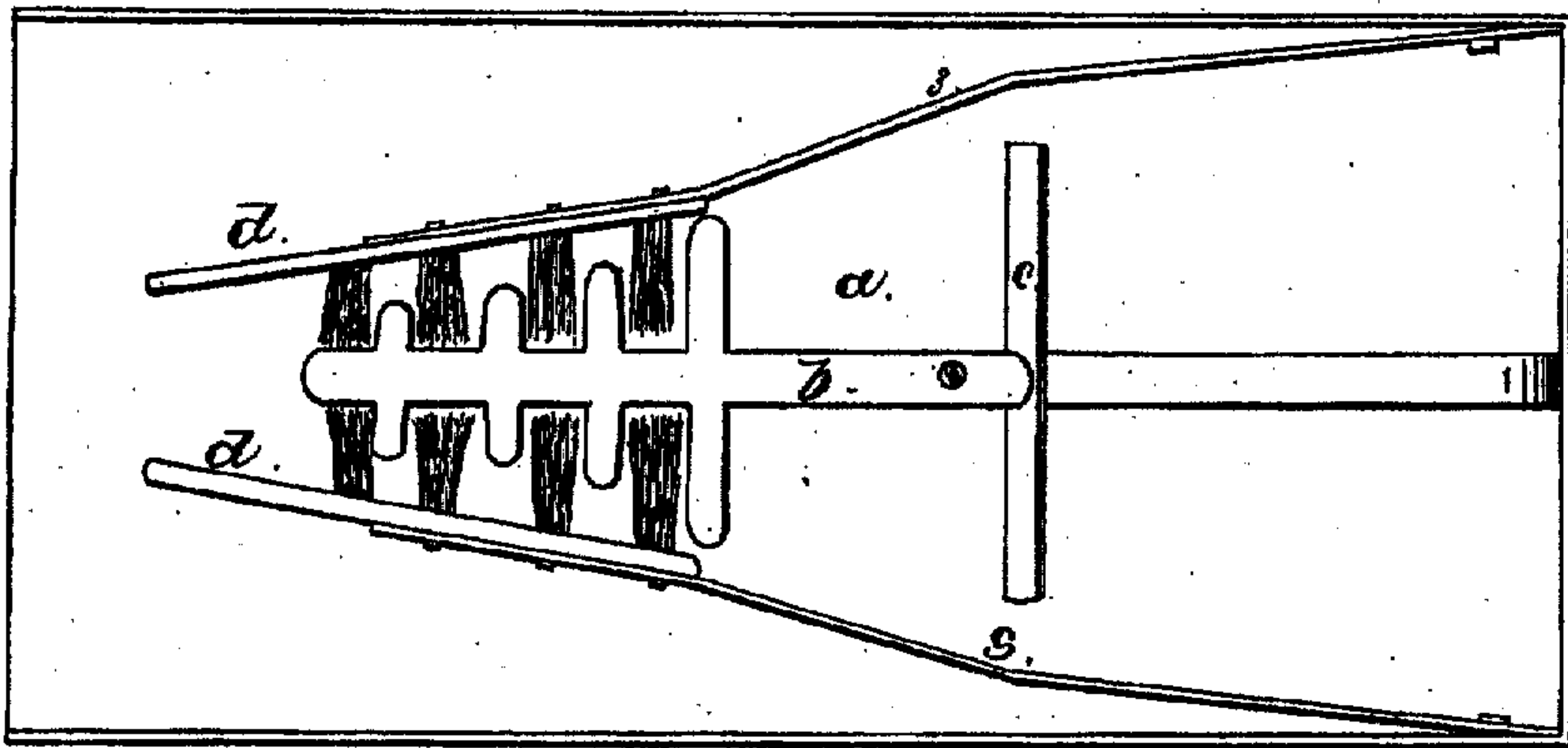
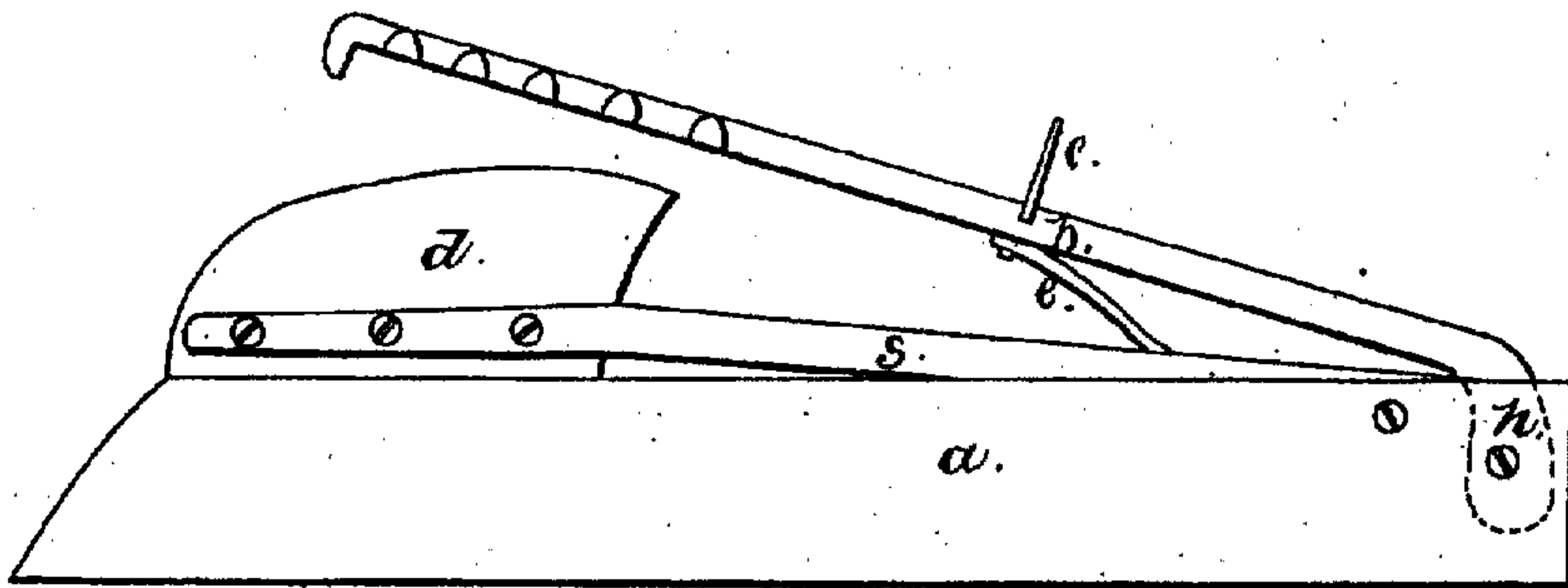
Alexander Ralph

2 Sheets. Sheet 2.

A. Ralph,
Boot Cleaner.

No 33,491.

Patented Oct. 15, 1861.



Witnesses:
S. A. Hendrickson.
Opposing

Inventor:
Alexander Ralph.

UNITED STATES PATENT OFFICE.

ALEXANDER RALPH, OF CENTREVILLE, DELAWARE.

IMPROVED FOOT-SCRAPER.

Specification forming part of Letters Patent No. 33,491, dated October 15, 1861.

To all whom it may concern:

Be it known that I, ALEXANDER RALPH, of the town of Centreville, in the county of New Castle and State of Delaware, have invented a new and Improved Foot-Scraper; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

I compose my scraper of iron of the shape shown, the whole being fastened in an iron frame or box *a*. The scraper *O* is set in the iron bar at *b* and is a plain strip of hoop or strap iron. This bar *b* is held to its place by a rivet in its heel at *h* and is kept in place and returned from its depressed position by the spring *e*. On each side of the box or frame *a* I fasten two brushes *d d*, which work by means of springs *s s*. These brushes may be removed by unscrewing and similar appendages used—to wit, the cleaners *m m*, as shown by the drawings hereunto appended, marked A, No. 2, in which Figure 1 shows the cleaner in a vertical position, and Fig. 2 the plate of the cleaner horizontally, with the gum or gutta-percha strips inserted. These

cleaners are to be substituted where the soil is heavy and stiff. I compose these cleaners of a cast-iron plate of sufficient thickness to admit of the grooves *n n n n*, in which I glue or fasten the strips of gum or gutta-percha *o o o o*.

This scraper is operated in the following manner, to wit: The foot is placed upon the spring end of the bar supporting the scraper with the toe depressed. The foot is then brought down, so as to force the boot or shoe over the scraper, along the bar, and between the brushes, which not only cleanses the soles of the boot or shoe, but also the sides at the same time. Upon withdrawing the foot the spring forces the forked bar up, throwing out the dirt from the brushes or cleaners.

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

The combination of the scraper with the forked spring-bar and brushes or gutta-percha or gum cleaners, substantially as specified.

ALEXANDER RALPH.

Attest:

WM. B. WIGGINS,
S. A. HENDRICKSON.