

ALLEN WAY.

Improvement in Boiler-Flue Scrapers.

No. 125,919.

Patented April 23, 1872.

Fig. 1.

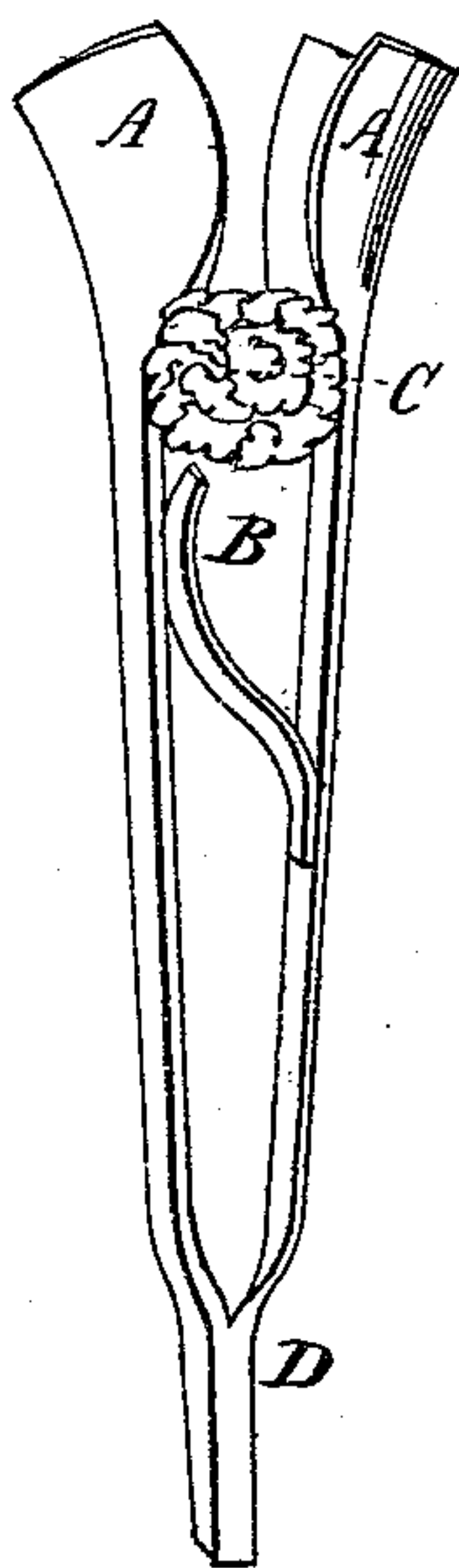


Fig. 2.

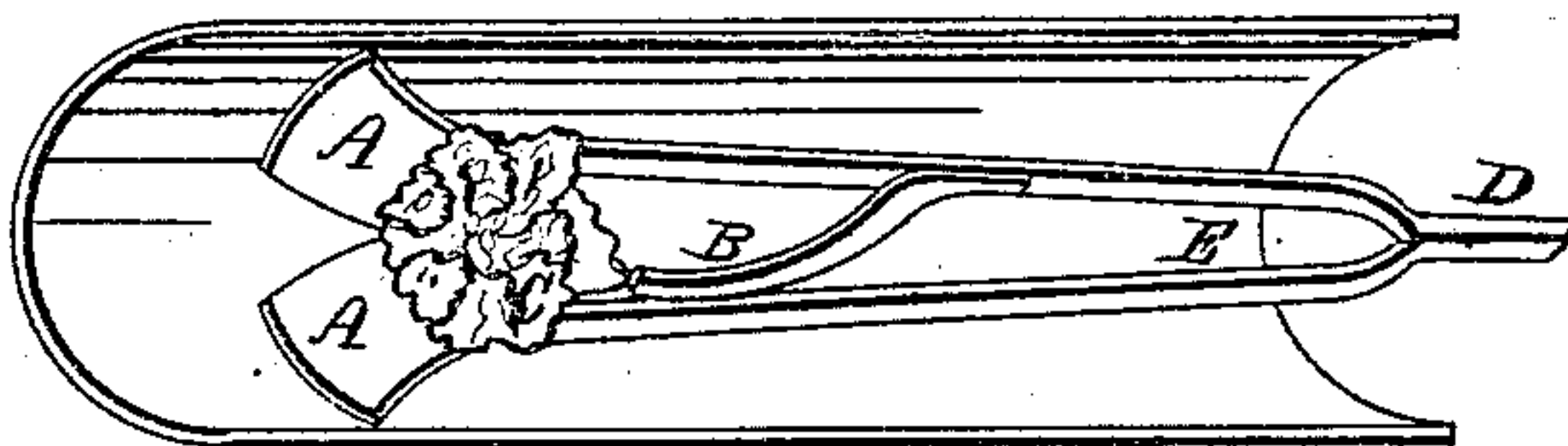
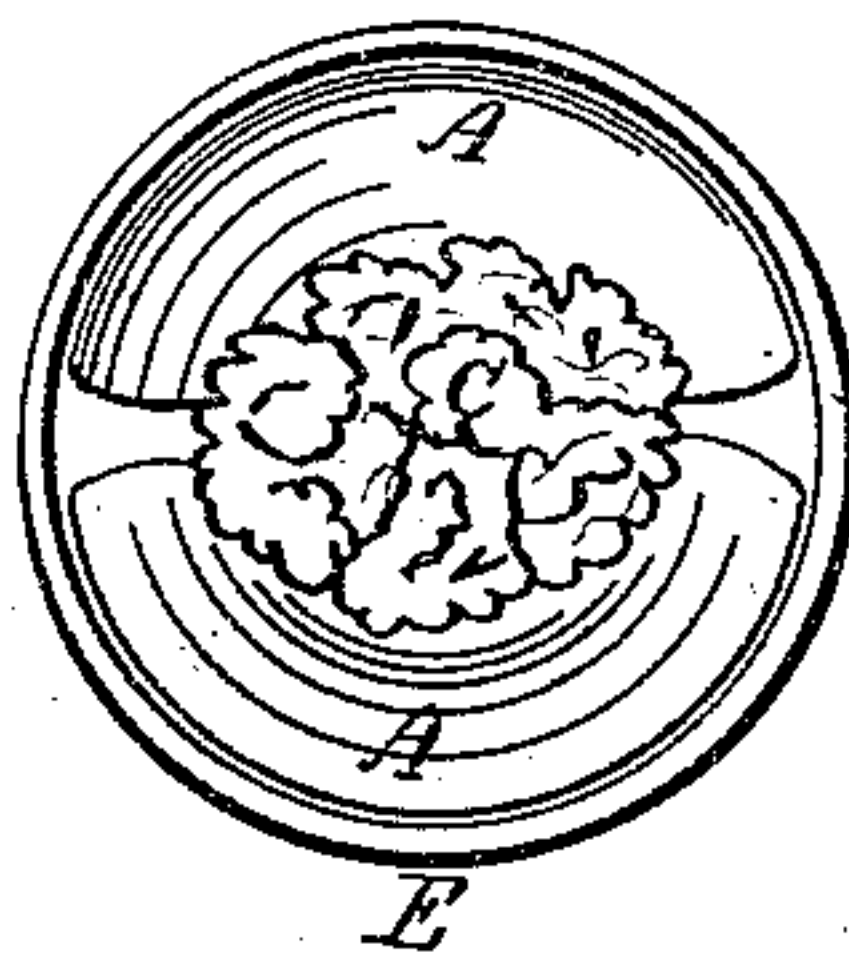


Fig. 3.



Witnesses:

William Pettingell
John W. Tyler

Inventor:

Allen Way

UNITED STATES PATENT OFFICE.

ALLEN WAY, OF PAINESVILLE, OHIO.

IMPROVEMENT IN BOILER-FLUE SCRAPERS.

Specification forming part of Letters Patent No. 125,919, dated April 23, 1872.

SPECIFICATION.

I, ALLEN WAY, of Painesville, in the county of Lake and State of Ohio, have invented certain Improvements in Boiler-Flue Scrapers, of which the following is a specification:

Nature and Objects of the Invention.

My invention relates to the combination of the two semicircular curved sections A A, which are held apart and forced against the interior of the flue-pipe by the spring B; also, the combination of the sponge C, or any other water-absorbing elastic substance, with the above-mentioned parts, for the purpose of preventing the soot passing to the rear of the scrapers, as is shown in the drawing. The sponge nearly fills the interior of the two sections.

Description of the Accompanying Drawing.

Figure I is a view of the scraper complete in all its parts; Fig. II, horizontal section of both flue-pipe and scraper; Fig. III, view of cross-section of flue and position of the two semicircular curved sections therein; also, the position of the sponge.

General Description.

A A are two semicircular curved sections of the scraper, which are united together at the ends D, thus forming sufficient metal to attach the scraper to a rod either by a weld or a screw-joint, as may be best. The lower ends of the sections are drawn down thinner and narrower than the curved portion, to form a spring which forces the two sections apart, and, with the as-

sistance of the spring B, causes the rounded edge of the sections to bear with great force against the interior of the flue, which causes the removal of all the soot and scale when the scraper is passed through the flue.

The sponge C is placed in, and secured, in any convenient manner, between the two sections, and effectually prevents any soot from passing to the rear of the scraper when said scraper is in use. Any other substance which will absorb water can be used in the place of the sponge; but I think sponge is the best, as it will absorb more water than any other substance, being less liable to burn on that account.

The circular edges of the scraper sections bearing, as they do, against the interior of the flue, are self-sharpening, and always present a sharp edge to the soot and scale; also, the spring B compensates for wear, for as the edges wear away the spring forces the scrapers hard against the interior of the flue. The action of the scrapers A A, and the form they assume in the flue E, is shown in the detail drawing, Fig. III.

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

The combination of the two semicircular curved scraper sections A A, the spring B, and sponge C, or its equivalent, substantially as and for the purpose as hereinbefore set forth.

ALLEN WAY.

Witnesses:

WILLIAM PETTINGELL,
JOHN W. TYLER.