

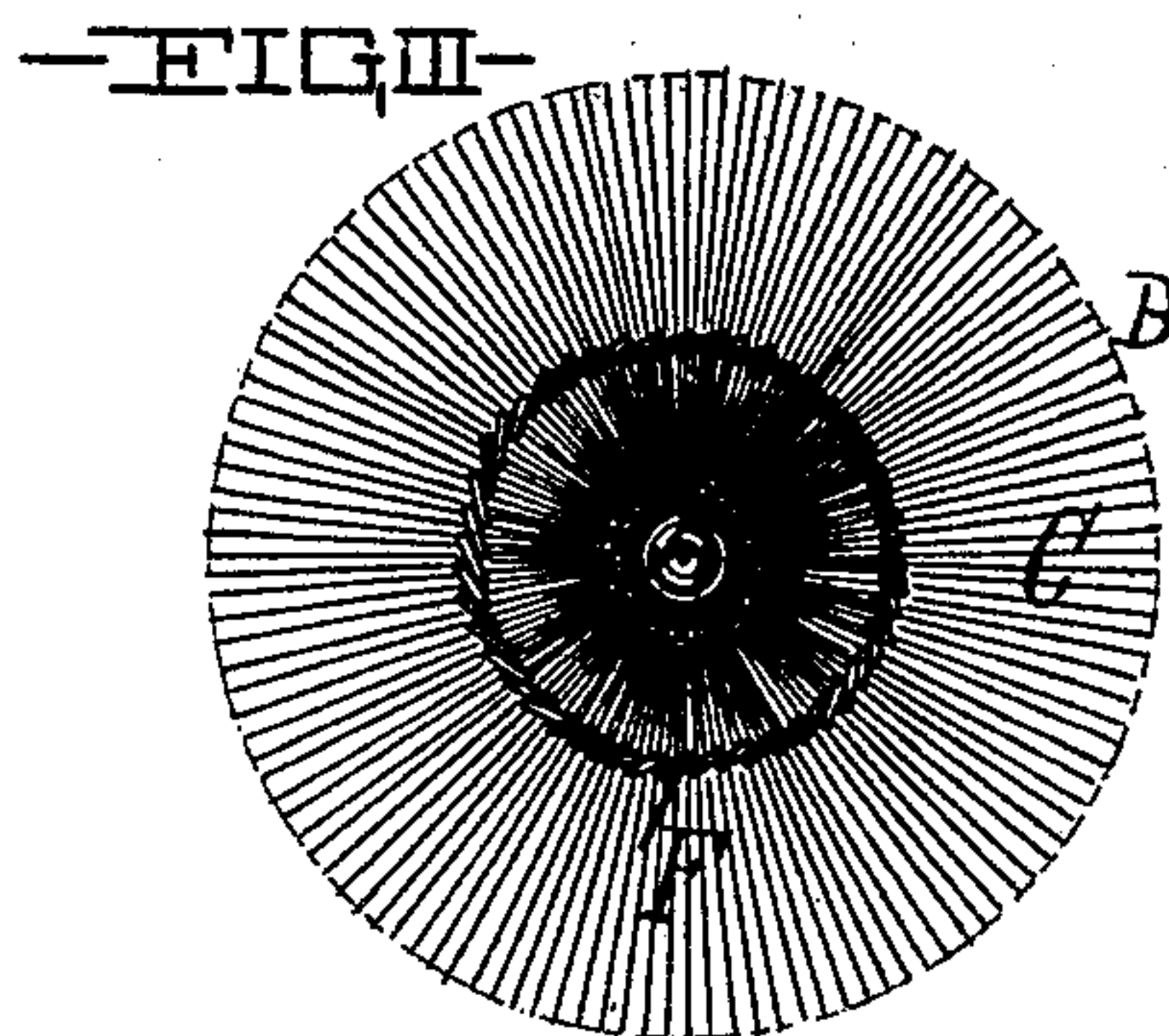
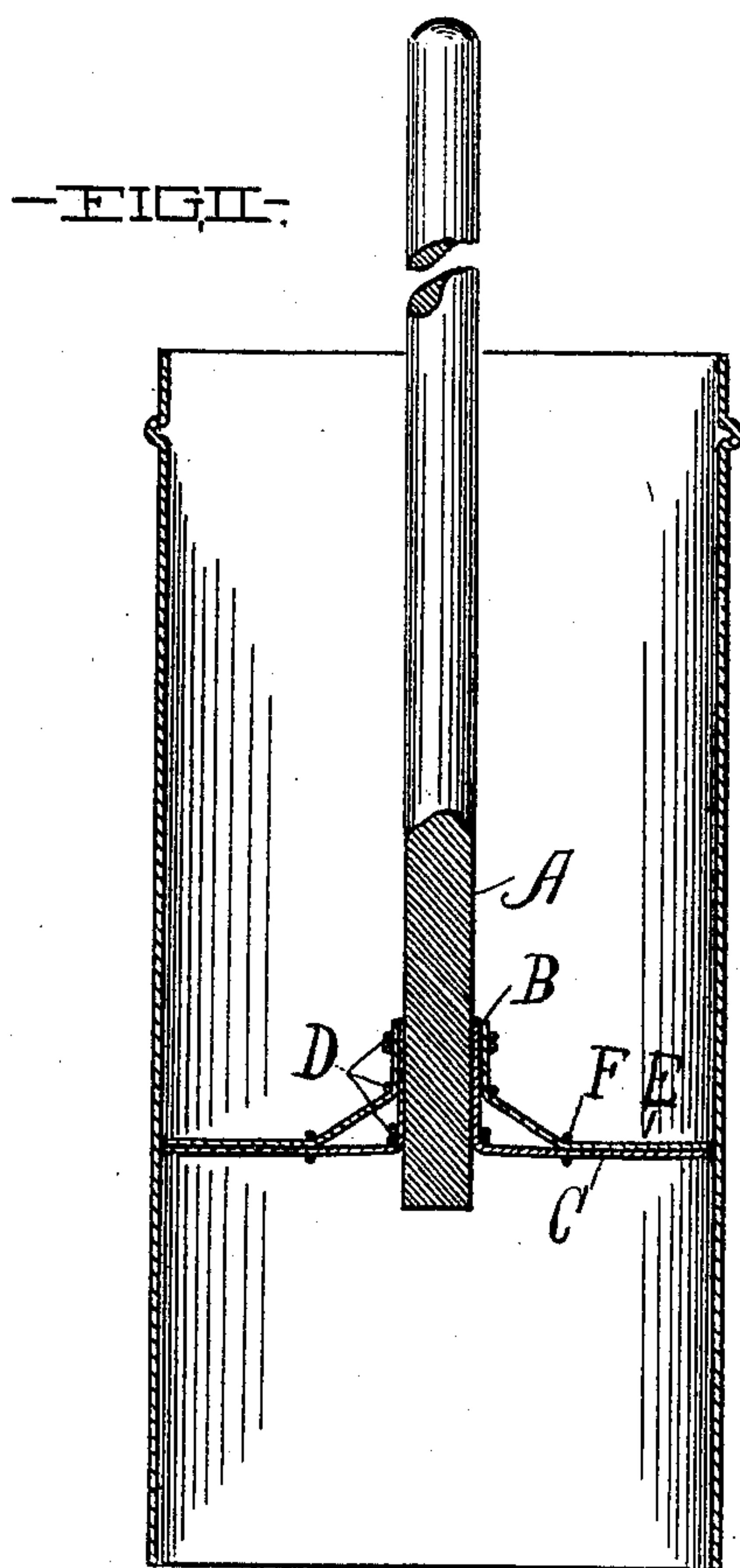
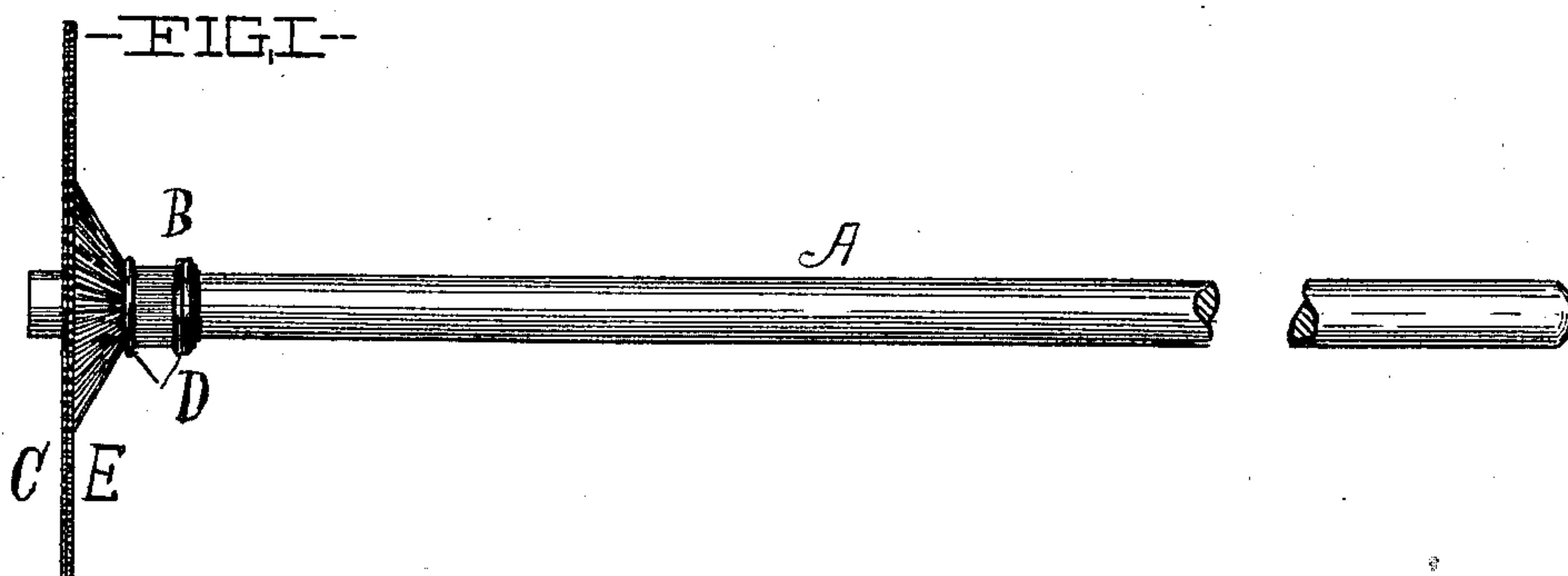
No. 640,190.

Patented Jan. 2, 1900.

A. A. FRADENBURG.
FLUE OR STOVEPIPE CLEANER.

(Application filed Apr. 20, 1899.)

(No Model.)



WITNESSES:
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UNITED STATES PATENT OFFICE.

ANDREW A. FRADENBURG, OF BROOKLYN, OHIO.

FLUE OR STOVEPIPE CLEANER.

SPECIFICATION forming part of Letters Patent No. 640,190, dated January 2, 1900.

Application filed April 20, 1899. Serial No. 713,703. (No model.)

To all whom it may concern:

Be it known that I, ANDREW A. FRADENBURG, of Brooklyn, Cuyahoga county, and State of Ohio, have invented certain new and
5 useful Improvements in Stovepipe or Flue Cleaners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make
10 and use the same.

My invention relates to stovepipe or flue cleaners; and it consists in the peculiar construction of the same, as will be hereinafter fully set forth and claimed.

15 In the drawings, Figure I is a view in elevation of a device embodying my invention. Fig. II is a vertical sectional view taken through the same. Fig. III is a top plan view of the flue-cleaner.

20 A represents a handle, which is preferably made of wood. The handle A is provided at its lower end with a head B, which is preferably composed of broom-corn, such as is used in making broom-heads.

25 The cleaning member or head B is fastened to the handle as follows: A layer of under tufts or bristles C is wired by means of the wire D to the handle, as is usual in broom-making. This layer of bristles encircles the
30 lower end of the handle. Another layer of upper tufts E is similarly secured around the handle a short distance above the lower layer of bristles. After the layers of bristles are properly secured to the handle the bristles
35 composing the lower layer are bent back upon themselves until they project laterally at right angles to the handle. The bristles composing the upper layer E slant away from the handle until they meet the bristles of the
40 lower layer at a short distance from where they are wired to the handle and then lie parallel with them the rest of their length. The two layers are then securely sewed together at the junction of the sloping portion
45 of the upper layer with the lower layer by means of thread, string, or fine wire F, as found convenient or necessary. The sewing of the two layers of tufts C and E is so arranged that the layers support each other and
50 keep the head extended in a radial direction

from the handle. The ends of the corn, bristles, or wires are then trimmed to proper size and uniformity, according to the size of pipe or flue which they are to clean.

The upper layer of bristles not only adds to 55 the scraping and brushing surface of the flue-cleaner, but also acts as a flexible brace for the lower layer. It normally holds the lower layer in its position at right angles to the handle, and when the cleaner is being used it 60 prevents the bristles from being bent too far in any direction. It is thus impossible under ordinary circumstances in pushing or pulling the cleaner through a flue to bend the bristles to such an extent as to cause them to 65 break where they are wired to the handle.

By means of a cleaner constructed according to my invention stovepipes may be easily and thoroughly cleaned, as may also flues of chimneys and the like; also, on account of 70 the construction of the same the manufacture is cheapened without detracting from the efficiency of the cleaner.

What I claim is—

1. A pipe or flue cleaner consisting of a 75 handle provided with a head comprising two layers of brushing or scraping material, which layers extend about and laterally of the handle and are secured together so as to support each other, substantially as set forth. 80

2. A pipe or flue cleaner consisting of a handle, A, provided with a circular head, B, formed of a lower layer of laterally-projecting bristles, C, encircling the handle, and an upper layer of laterally-projecting bristles, 85 E, encircling the handle above the lower layer and having its central portion inclining or sloping from the lower layer inwardly and upwardly to where it is wired to the handle, and means for binding the said layers together at or near the junction of the sloping 90 portion of the upper layer with the lower layer, substantially as set forth.

Signed by me at Cleveland, Ohio, this 29th day of March, 1899.

ANDREW A. FRADENBURG.

Witnesses:

W. E. DONNELLY,
A. H. PARRATT.