

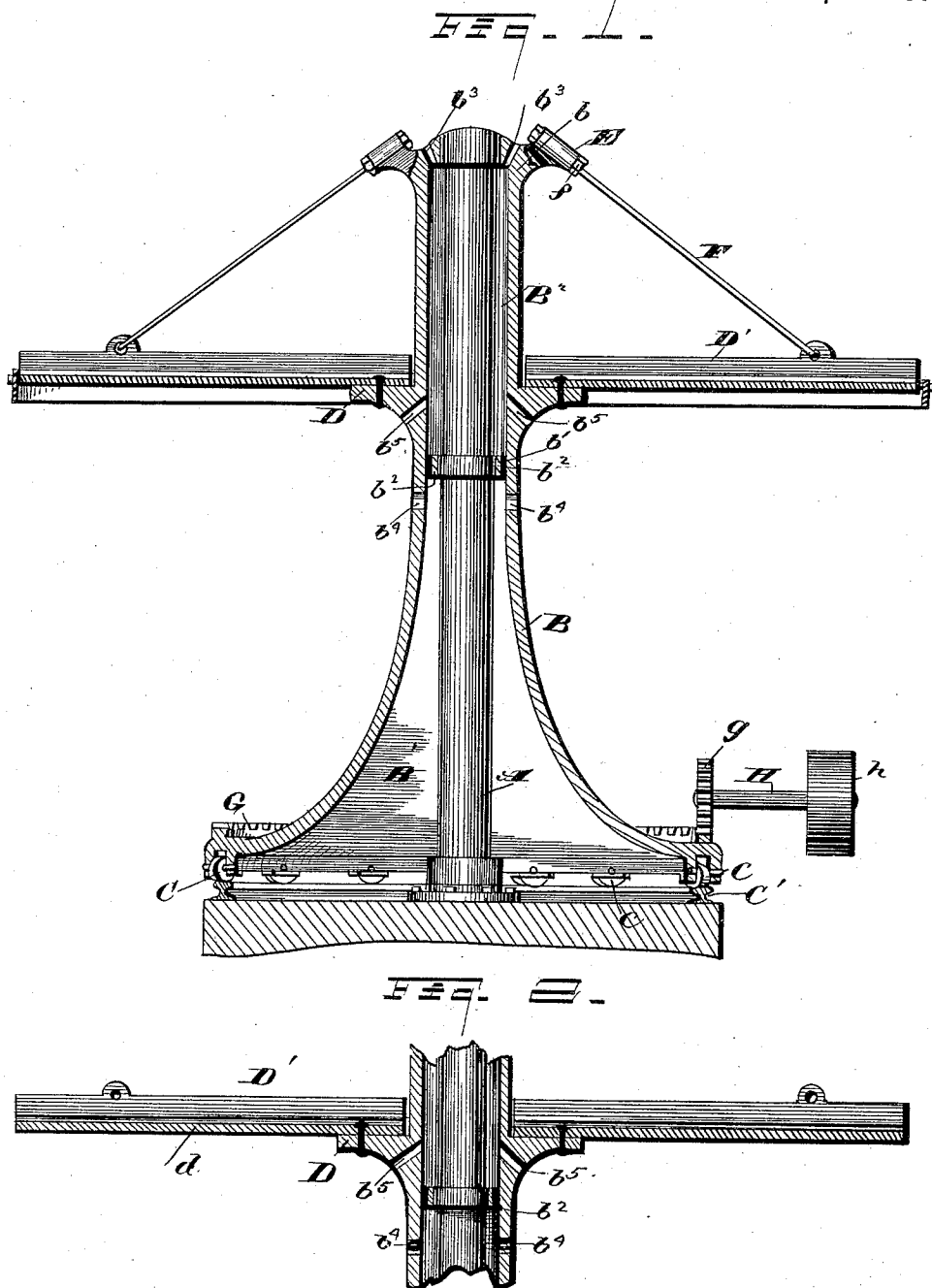
(No Model.)

P. NEFF.

APPARATUS FOR THE MANUFACTURE OF LAMP BLACK.

No. 319,606.

Patented June 9, 1885.



WITNESSES

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PETER NEFF, OF GAMBIER, OHIO, ASSIGNOR TO PETER NEFF, JR., OF SAME PLACE.

APPARATUS FOR THE MANUFACTURE OF LAMP-BLACK.

SPECIFICATION forming part of Letters Patent No. 319,606, dated June 9, 1885.

Application filed March 6, 1885. (No model.)

To all whom it may concern:

Be it known that I, PETER NEFF, of Gambier, in the county of Knox and State of Ohio, have invented certain new and useful Improvements in Apparatus for the Manufacture of Lamp-Black; 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 and use the same.

My invention relates to improvements in apparatus for the manufacture of lamp-black, in which a collector is mounted on a hollow standard that revolves around an upright stationary column, and the standard mounted on rollers that travel on a circular track, and lateral openings in the standard, by means of which the standard serves as a ventilating flue or chimney.

In the accompanying drawings, Figure 1 is an elevation, partly in section, of an apparatus embodying my invention. Fig. 2 is an elevation of a modified form of table.

A represents an upright column firmly secured to the foundation, and may extend far enough above the apparatus to be secured with guy-rods or other means, if preferred.

B is a hollow standard flaring into a broad base at the bottom, as shown, and mounted on a series of rollers, C, that travel on a circular track, C', concentric with the column A. The standard is provided with two heads, *b* and *b'*, that have each a central bore that fit the column A and form guides for the standard. These heads have a series of openings, *b²* and *b³*, the former connecting the chambers B' and B², and the latter opening externally. The standard has also lateral openings *b⁴* and *b⁵* below the table, and by means of which the standard serves as a chimney or ventilating-flue. The standard has a laterally-projecting flange, D, to which are secured the radial arms D', that support the plates *d*, that form the depositing-surface of the table. The standard at the top has lugs E, through which pass the brace-rods F, that support the outer end of the arms D'. These rods have nuts *f*, by means of which the rods may be adjusted lengthwise to level the table. For revolving

the table, on the base of the standard is secured a circular rack, G, that engages the pinion *g*, mounted on the shaft H, that is provided with the driving-pulley *h*. The column A may extend far enough above the standard B to admit of attaching guy-rods to the column, if desired. Burners are arranged under the table, so that the flames will impinge the lower surface thereof, and scrapers are arranged to remove the deposit; but as these scrapers and burners are in common use in this class of apparatus it is not considered necessary to illustrate or describe them.

Fig. 2 represents a lamp-black-collecting apparatus, having for its collecting-surface a flat imperforate disk, *d*, without the characteristic feature, as shown in former inventions of mine, of being substantially like an inverted dish, whereby a body or cushion of carbonic-acid gas is collected and retained for the partial smothering of the black-depositing flames. In this form of collector, such as illustrated in Fig. 2, there would be a certain amount of carbonic acid collected, but not so retained in a definite body as would be the case with a collector, as shown in Fig. 1, having the depending rim or flange.

What I claim is—

1. In a machine for manufacturing lamp-black, a black-collector mounted on a hollow standard, the latter provided with a broad base and supporting-rollers that operate on a circular track, and a guiding-column inside the standard, substantially as set forth.

2. In a machine for manufacturing lamp-black, a black-collector mounted on a hollow standard, with wheels and circular tracks for supporting the structure, a circular rack attached to the standard, an engaging pinion, and suitable mechanism for revolving the standard, and an upright stationary guiding-column inside the standard, substantially as set forth.

3. In a machine for manufacturing lamp-black, a collector mounted on a hollow standard provided with rollers, circular tracks, and mechanism for revolving the standard and load, a stationary upright guiding-column inside the standard, and inwardly-projecting

flanges or heads on the standard to engage the columns, lateral openings in the standard, and vertical openings in the inside flanges, and the parts so arranged that the standard serves
5 as a chimney or ventilating-flue, substantially as set forth.

4. In a machine for manufacturing lamp-black, the combination, with a hollow standard mounted on wheels and an inside guiding-
10 column, of the flanges D and lugs E, integral with the standard, arranged to support the black-collector, substantially as set forth.

5. In a machine for making lamp-black, a horizontally-revolving substantially flat and imperforate collector unprovided with a carbonic-acid-gas retaining rim or flange, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 30th day of January, 1885.

PETER NEFF.

Witnesses:

G. S. BENEDICT,
ALFRED FISH.