No. 836,780. PATENTED NOV. 27, 1906.

H. F. PENDLETON.

GAS MANGLE.

APPLICATION FILED JULY 26, 1905.

Fig. 1.

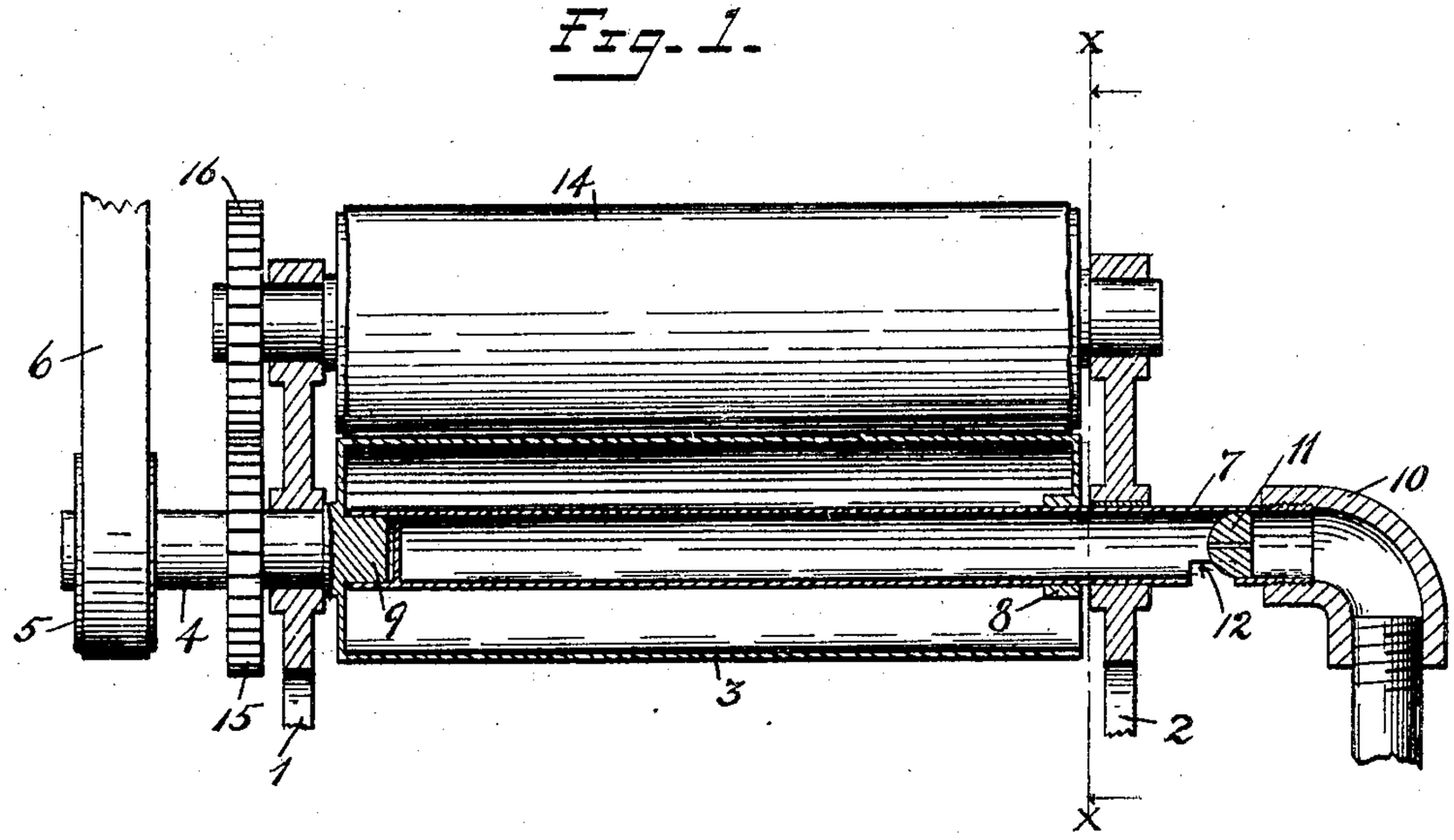


Fig. 3.

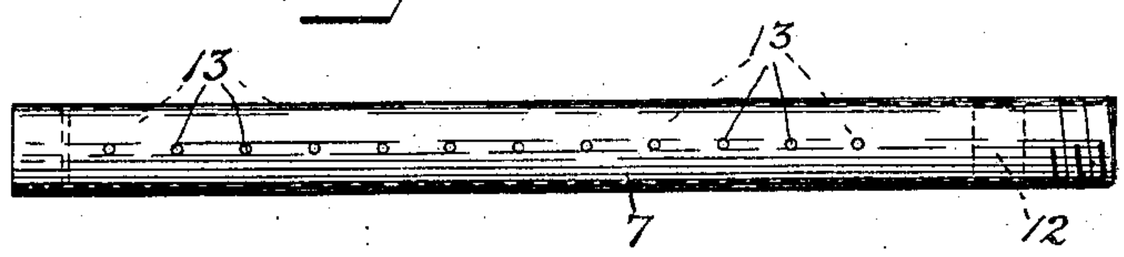


Fig. 2.

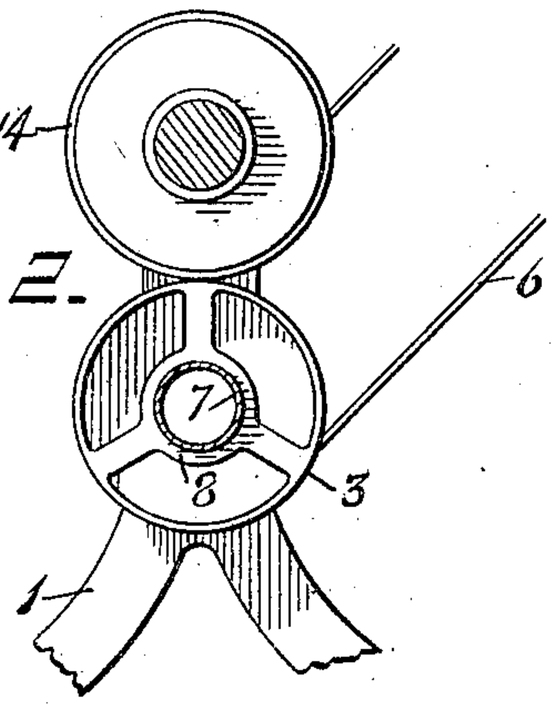
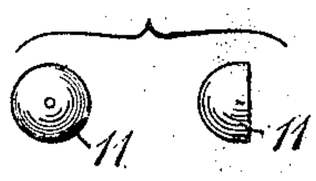


Fig. 4.



Witnesses

Inventor

H. F. Pendleton

By his Attorneys

Bartlett Brownell & Mitchell

UNITED STATES PATENT OFFICE.

HARRY FILLMORE PENDLETON, OF BROOKLYN, NEW YORK.

GAS-MANGLE.

No. 836,780. Specification of Letters Patent. Patented Nov. 27, 1906.

Application filed July 25, 1905. Serial No. 271,163.

To all whom it may concern:

Be it known that I, HARRY FILLMORE PENDLETON, a citizen of the United States, residing at Brooklyn, county of Kings, State of New York, have invented certain new and useful Improvements in Gas-Mangles, of which the following is a full, clear, and exact description.

My invention relates to mangles, and particularly to gas-mangles.

The object of my invention is to economize in the way of expense and space and facilitate the operation.

The details of a construction embodying my invention will be seen on inspection of the accompanying single sheet of drawings, in which—

Figure 1 is a side elevation of a gas-mangle, showing parts in section. Fig. 2 is a section and end elevation taken on the plane of the line X X, Fig. 1, looking in the direction of the arrows. Fig. 3 is a plan view of the burner. Fig. 4 shows details of the gas-inlet member.

In the accompanying drawings, 1 and 2 are standards.

3 is a roller or cylinder which is open at one or both ends, so as to let out the products of combustion, and has a shaft 4 mounted in the frame.

5 is a pulley, and 6 is the driving-belt.

7 is the burner-tube, securely mounted in the frame or standard 2. The hub 8 of the roller 3 has a long bearing on the burner-tube 7. At the other end the burner-tube is centered on the extension 9 of shaft 4 inside of the roller.

10 is a pipe joint or terminal which connects the burner proper with the gas-supply.

11 is the inlet member for the gas.

12 is an air-inlet for admission of air into the burner-tube.

13 13 are outlets for the combustible mixture.

14 is a companion roller which has bearings at both ends on the standards 1 and 2 of the frame and is rotated by means of the gear-wheels 15 and 16.

From the foregoing it will be seen that by shifting the burner-tube longitudinally the end play of the roll 3 may be taken up. This is due to the fact that the inner end of the burner-tube takes an end bearing against the adjacent part of said roll. (See Fig. 1.) The construction considered as a whole is very simple and effective and may be easily assembled or taken apart.

Having fully described my invention, what I claim is—

A mangle comprising a frame, a hollow rotatable cylinder, a stationary burner-tube projecting within said cylinder, inlets therein for the admission of air and gas, outlets therein within said hollow cylinder, said burner-tube being supported at one end directly by said frame and at the other end directly by said cylinder, said cylinder being supported at one end directly by said frame and at the other end directly and wholly by said burner-tube, said burner-tube taking an end bearing against the inner wall of said hollow cylinder.

HARRY FILLMORE PENDLETON.

Witnesses:
GEORGE BEHRENS,
R. M. LAMBERT.