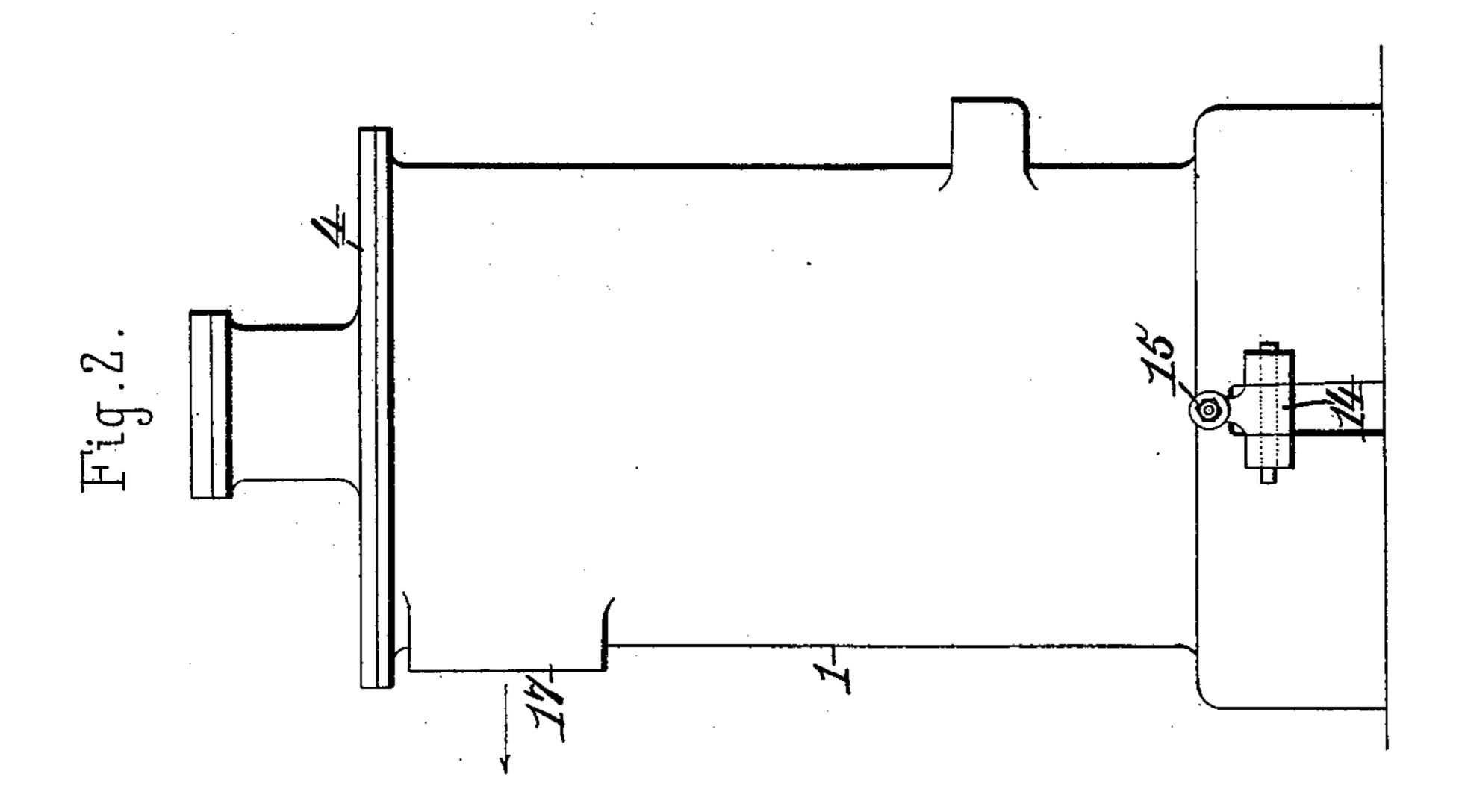
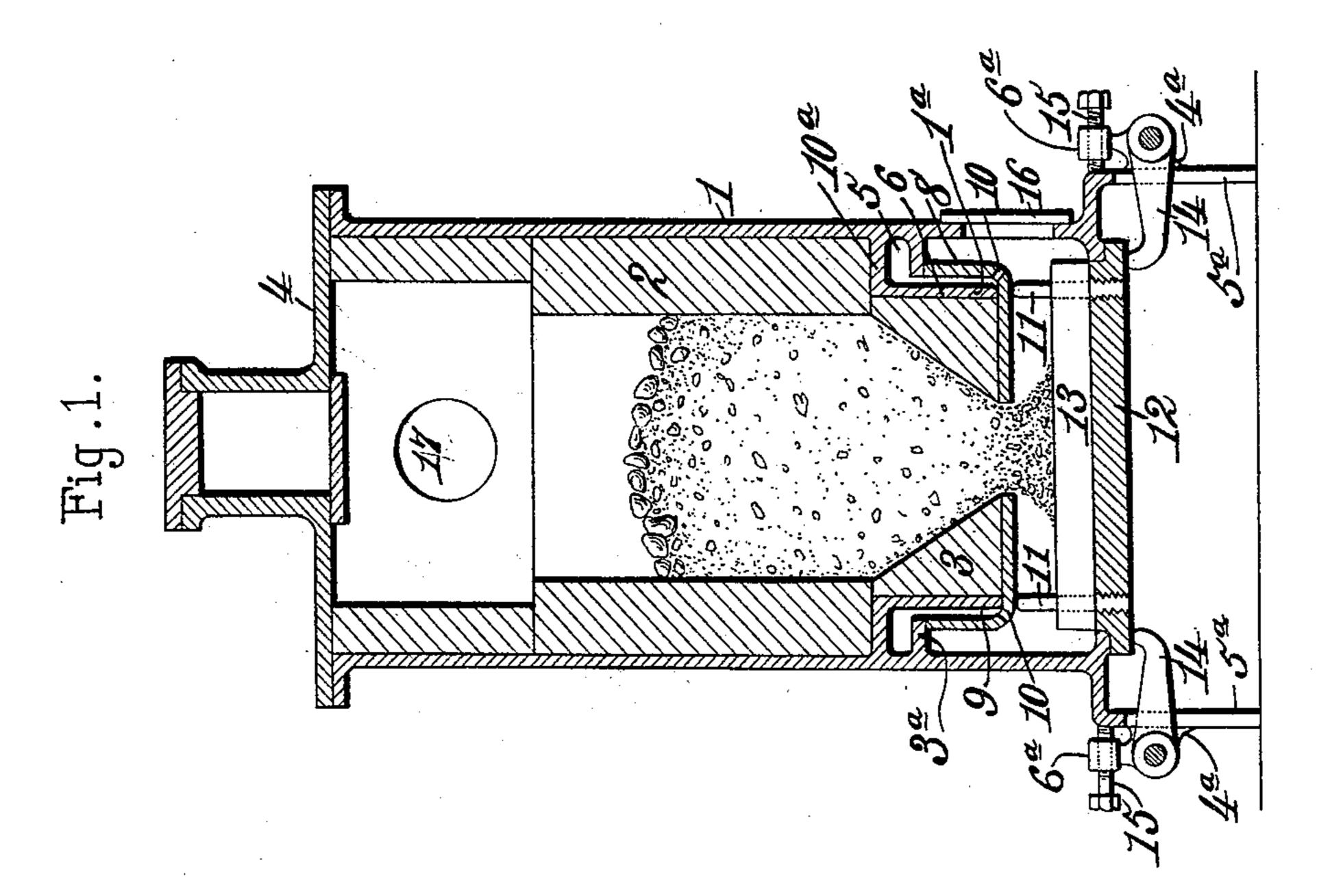
M. TAYLOR.

GAS PRODUCING APPARATUS.

(Application filed May 16, 1898.)

(No Model.)





Witnesses Notest Exectt. Inventor.
Maurice Taylor,
By James L. Norris.
Atty

United States Patent Office.

MAURICE TAYLOR, OF PARIS, FRANCE.

GAS-PRODUCING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 636,084, dated October 31, 1899.

Application filed May 16, 1898. Serial No. 680,829. (No model.)

To all whom it may concern:

Be it known that I, MAURICE TAYLOR, a British subject, residing at Paris, France, have invented certain new and useful Improvements in Gas-Producing Apparatus, of which the following is a specification.

My invention relates to an apparatus for producing gas, my purpose being to provide such an apparatus with means that will en-

10 able it to be easily cleansed.

In order that my invention may be clearly understood, I now proceed to describe the same in detail with reference to the accompanying drawings, in which—

Figure 1 is a vertical section of the gas-producing apparatus. Fig. 2 is an elevation.

ducing apparatus. Fig. 2 is an elevation. The gas-producing apparatus consists, substantially, of a chamber inclosed by a metallic jacket 1, having a lining of fire-brick 2 20 and closed at the upper end by a plate 4, which supports the fuel-charging devices. At the lower end of the chamber is a retort-block 3, of a material that will resist fire. The exterior diameter of this block is less than that 25 of the jacket 1, and it is inclosed by a jacket or casing 6, that forms part of a flange 10a, extending inwardly from the jacket 1 beneath the fire-brick 2. The retort-block 3 has a funnel-shaped recess or chamber, the contracted 30 end of which opens through the lower face of the block, which rests upon a plate that forms part of a metallic casing 8, the circular portion of which surrounds a contracted portion 6 of the jacket 1, at a little distance from the 35 latter, so as to form an annular space 9, which opens above into an annular chamber 5, inclosed upon three sides by the flange 10a, and an inwardly-projecting rib 3a a little below the flange, the third side being inclosed by 45 that part of the jacket 1 between the flange 10^a and the rib 3^a. The upper edge of the metal casing 8 meets the lower face of the rib 3a, said casing being supported upon upright rods 11. These rods are supported by a door 45 12, which has a fireproof plate 13 upon its upper surface, which lies a little below the

into the fuel-space and to enable the slag to be removed from the retort. The door 12 is supported by bell-crank levers 14, fulcrumed

contracted opening in the lower face of the

retort-block 3 to permit air and steam to pass:

upon lugs 4a, which project from the base or lower portion of the jacket 1. The horizontal lever-arms pass through slots 5^a in said base, and their upwardly-turned extremities bear 55 against the lower face of the door 12. The upwardly-extending lever-arms are provided with screw-threaded terminals 6a, through which adjusting-screws 15 are passed, their ends bearing against the base of the jacket 60 to enable the operator to force the door 12 closely against the lower end of the jacket 1. A door 16 is placed in the jacket at such a point as to enable the slag and ashes to be readily taken out. The metal casing 8 is pro- 65 vided with openings 10 for the passage of air and steam from the annular space 9 into the space between the door 12 and said casing and thence into the furnace.

At or near the top of the chamber 1 there 70 is provided an orifice 17 for the escape of the heated gases.

The details of the apparatus may be varied without departing from the spirit of the invention.

What I claim is—

1. In a gas-producer, the combination with a retort and fuel-chamber, of a jacket inclosing the same, a door closing the lower end of the jacket, bell-crank levers each having an 80 arm extending underneath said door, and setscrews tapped through the other arms whereby said levers may be adjusted, substantially as described.

2. In a gas-producer, the combination with 85 a jacket inclosing and extending below a fuel-chamber and retort-block, a door closing the lower end of said jacket, bell-crank levers fulcrumed upon lugs projecting from the base of the jacket and having one arm of each 90 passed through a slot in said base, and set-screws passing through threaded terminals upon the upwardly-projecting arms of said levers and bearing upon said base, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

MAURICE TAYLOR.

Witnesses:

EDWARD P. MACLEAN, ALFRED FRELL.