(No Model.)

2 Sheets—Sheet 1.

F. WRIGHT.

DRY GAS METER.

No. 572,924. Patented Dec. 8, 1896.

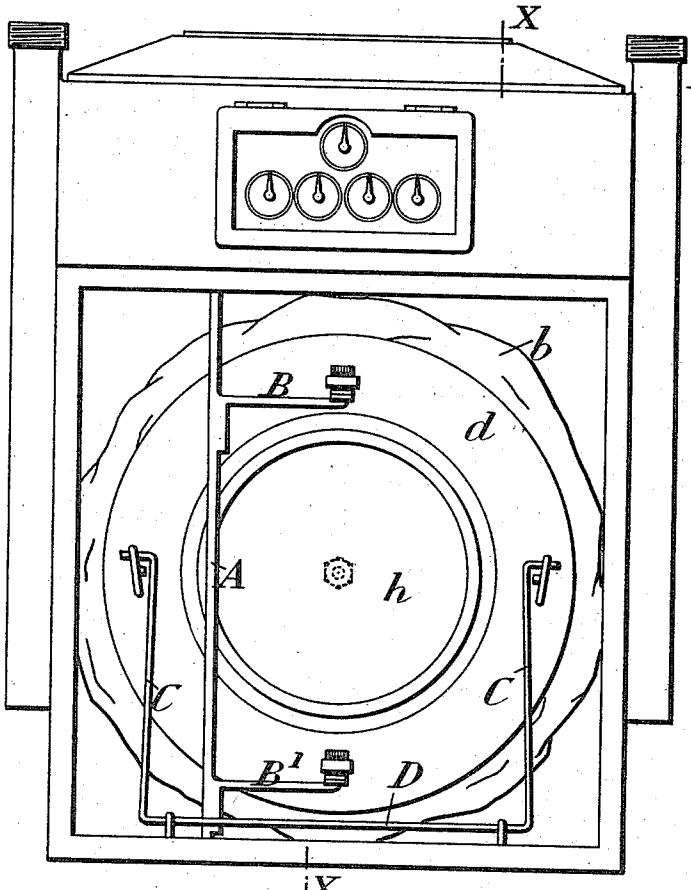


Fig. 1.

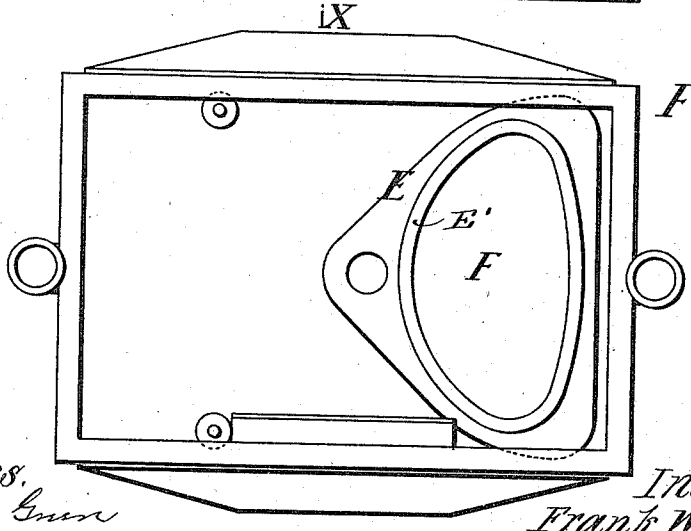


Fig. 2.

Witnesses.
Thos. A. Gunn
Robert Ewett.

Inventor.
Frank Wright.
By James L. Norris.
Atty.

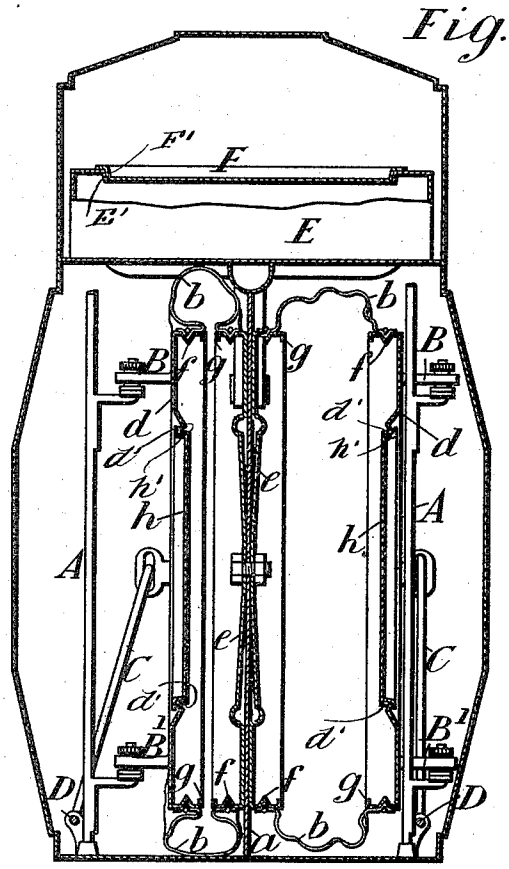
(No Model.) 2 Sheets—Sheet 2.

F. WRIGHT.

DRY GAS METER.

No. 572,924. Patented Dec. 8, 1896.

Fig. 3.



Witnesses.
Thos. A. Snow
Robert Everett

Inventor.
Frank Wright.
By James L. Norris.
Atty.

UNITED STATES PATENT OFFICE.

FRANK WRIGHT, OF LONDON, ENGLAND.

DRY GAS-METER.

SPECIFICATION forming part of Letters Patent No. 572,924, dated December 8, 1896.

Application filed February 4, 1896. Serial No. 578,022. (No model.)

To all whom it may concern:

Be it known that I, FRANK WRIGHT, gas-engineer, a citizen of England, residing at No. 21 Old Queen Street, Westminster, London, in the county of Middlesex, England, have invented a certain new and useful Improvement in Dry Gas-Meters, of which the following is a specification.

My invention relates to a modification in the construction of the bellows and valve-chambers of a dry gas-meter in such a manner as to save cost in their manufacture and to give ready access for inspection and repairs, as I shall describe, referring to the accompanying drawings.

Figure 1 is a front view of the interior of a dry gas-meter, the front wall being removed. Fig. 2 is a plan of the upper part. Fig. 3 is a vertical section on line X X of Fig. 1.

Each of the two bellows consists of two heads *d* and *e* of sheet metal stamped and formed with a bead *g* and a groove *f*, in which the edge of the leather *b* is secured. I stamp each of the heads *d* with a central hole and a conical lip *d'*, projecting inward around its central hole, and I stamp the cover *h* with a lip forming a corresponding conical boss *h'*, so that when the coned boss *h'* of the cover is pressed into the coned lip *d'* of the head it makes a gas-tight fit, but the cover can be readily removed when required to give access to the interior of the bellows. In order not to interfere with this free access, instead of one central arm projecting from each flag-rod A, I employ two arms B B', connected to studs projecting from the head *d*, the one above, the other below the central opening, the head being supported, as usual, on the two side arms C C, projecting up from the rocking shaft D, which is mounted below. Instead of attaching the inner heads *e e* to the central partition *a* by solder I fix them both to it detachably by a central bolt and nut, to which access can be had on removing the cover *h*.

In forming the valve-chamber E, I stamp it with an approximately oval opening in its top, having an inwardly-projecting conical lip E', like that of the hole in the head *d*, and I stamp a cover F for this opening with a corresponding conical boss F', which when pressed into the hole makes a gas-tight fit. The cover F can be readily removed when required to give access to the valve-chamber.

Having thus described the nature of this invention and the best means I know of carrying the same into practical effect, I declare that what I claim in respect of dry gas-meters is—

1. In a gas-meter, the combination with a partition of bellows, the heads *e* of which are removably secured to said partition, the heads *d* of said bellows formed with a central opening and the conical lip forming the edge of said opening, covers each having a conical boss fitting the conical lips of the heads *d* of the bellows and removable therefrom, studs secured to said heads *d* above and below the opening therein and arms connecting said studs to a flag-rod, substantially as described.

2. In a gas-meter, the valve-chamber E struck up from sheet metal with an oval opening having an inwardly-projecting conical lip E', and the valve-chamber cover F provided with a conical boss F' having a gas-tight fit in the conical lip of the valve-chamber, and removable therefrom, substantially as and for the purposes described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 23d day of January, A. D. 1896.

FRANK WRIGHT.

Witnesses:
OLIVER IMRAY,
GERALD L. SMITH.