H. WELLINGTON.

OIL-CHANDELIERS.

No. 183,352. Patented Oct. 17, 1876.

Fig. 1.

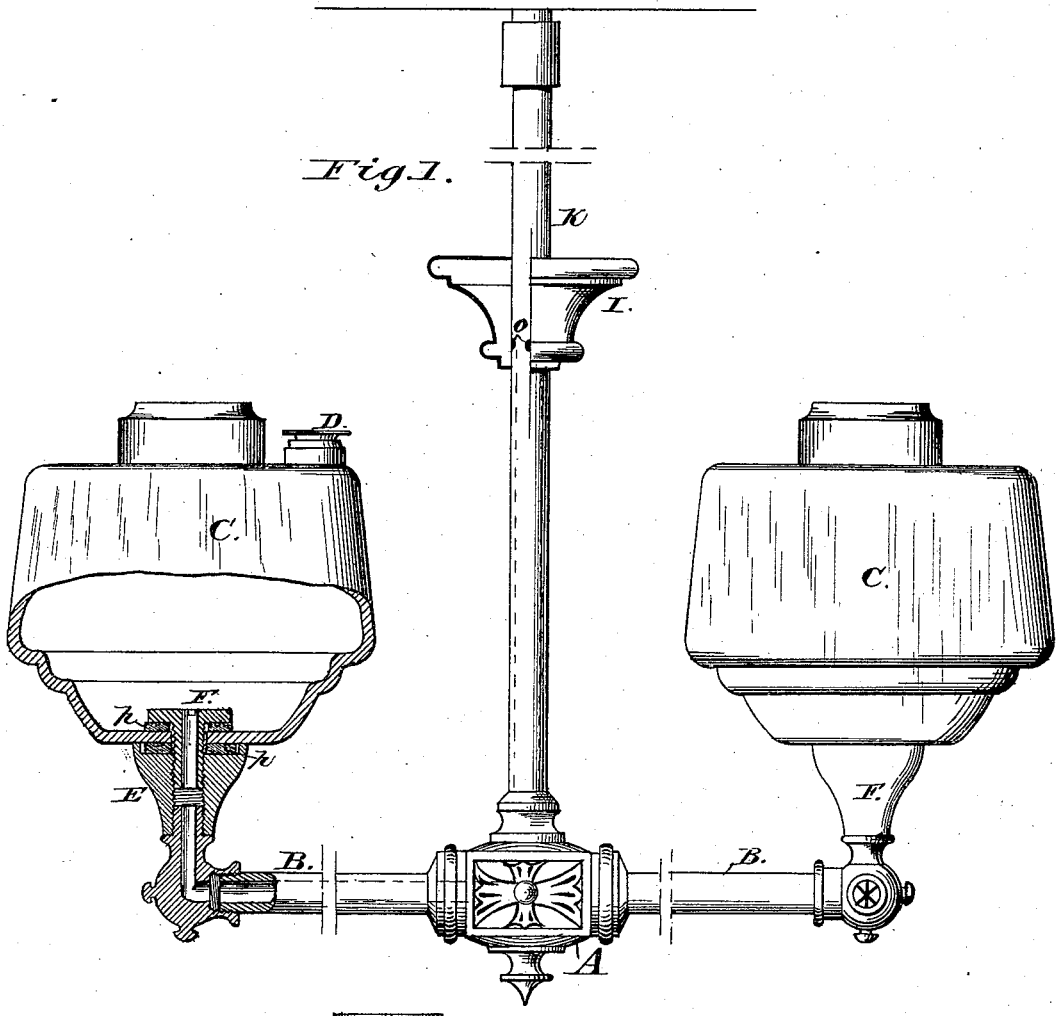
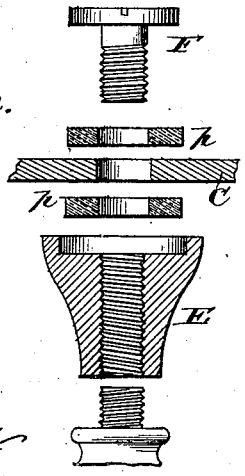


Fig. 2.



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UNITED STATES PATENT OFFICE.

HENRY WELLINGTON, OF GREEN POINT, NEW YORK.

IMPROVEMENT IN OIL-CHANDELIERS.

Specification forming part of Letters Patent No. **183,352**, dated October 17, 1876; application filed October 4, 1876.

To all whom it may concern:

Be it known that I, HENRY WELLINGTON, of Green Point, county of Kings, and State of New York, have invented certain new and useful Improvements in Oil-Chandeliers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is a partial section and elevation of an oil-chandelier embodying my improvements; and Fig. 2, an enlarged sectional view, showing the several parts used in connecting the oil-reservoir to its supply-pipe removed from each other.

Like letters of reference in both figures refer to corresponding parts.

The object of my invention is, first, to adapt an oil-reservoir to be placed upon the burner-nipples of an ordinary gas-chandelier, and thereby convert it into an oil-chandelier; second, to improve and simplify the means of connecting the oil-bowls of chandeliers to their bases; and, third, to provide a simple and convenient means for filling the oil-reservoirs of an ordinary oil-chandelier, to accomplish which it (the invention) consists in certain details of construction and combinations of parts, to be hereinafter more fully described, and then pointed out in the claims.

For the purposes of the first object, as above stated, A may represent the central distributing-coupling of an ordinary gas-chandelier, from which the several pipes B B radiate. To these I attach oil-vessels C C, having orifices in their bottoms, by removing the gas-burners and screwing the bases to which the oil-vessels are attached upon the burner-nipples. The screw-threads of the said nipples being generally of a standard gage, these bases are easily threaded to correspond therewith. This improvement enables me to utilize old gas-chandeliers for conversion to uses in connection with oil, and, in case that for any reason the gas is shut off from those already in place, to quickly and easily transform them into oil-chandeliers. For this purpose the oil-vessels C are preferably made of glass, which possesses many advantages over metal in a similar situation. Being transparent, it shows the height of oil at a glance, thus preventing overflowing in filling, and, from its peculiar nature, obviating the uncleanly and dangerous "sweating" of oil.

One of the founts should be provided with a filling-orifice, D, outside of the burner-cap, so that it will be unnecessary to remove the chimney or shade in filling. Being open at their bottoms, and having a free communication with each other through the several pipes B, it will only be necessary to turn oil into one of them, and the height of oil in each will remain the same as in any one. To secure the oil-bowl to its base I clamp the bottom thereof between two cork or equivalent packing-rings, *p p*, substantially as follows: The base E is recessed to receive the lower packing-ring, which should be sufficiently thick to prevent the bottom of the oil-reservoir from coming in contact with the base before said ring is compressed enough to answer the purposes of an oil-tight packing. The exteriorly screw-threaded hollow plug F has a shoulder at top, which bears upon the upper packing-ring, and, when screwed down into the hollow base, clamps the two rings tightly upon the bottom of the oil-vessel, and thereby completes the joint. The plug is screwed down or tightened by inserting a screw-driver, wrench, or suitable implement through the burner-orifice of the oil-bowl. This construction enables me to dispense with the use of plaster-of-paris or cements, and is a very simple, cheap, and effective means of uniting oil-bowls with their bases, from which they may, if desired, be readily removed for packing or repairs.

When the oil-chandelier is formed by the conversion of a gas-fixture, or when it has no central oil-supply vessel, it is often found desirable to provide some means of filling the several burner-cups without opening any orifice in them—as, for instance, when the lamps are lighted. To accomplish this I perforate the sustaining-pipe K at a point, *o*, above the mouths of the oil-bowls. Around this perforation I place a cup, I, which may, in addition to its usefulness for catching the oil and directing it into the orifice *o*, serve the purpose of an ornament to the sustaining-pipe K.

The chandelier constructed in accordance with these improvements possesses many obvious points of superiority over the ordinary

metallic chandelier, among the most prominent of which are its non-liability to sweating, the facility with which its parts may be connected or disconnected, and the ease with which a gas-chandelier may be converted, as above explained.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the pipes B B of an ordinary gas-chandelier, a series of lamp-founts having perforated bottoms, through which connection is established between the several founts, substantially as and for the purpose set forth.

2. In combination with a glass lamp-bowl, perforated as described, the base E and hollow screw-plug F, adapted to clamp said bowl between the packing-gaskets, substantially as and for the purpose described.

3. The filling-orifice *o*, located in the sustaining-pipe K, and surrounded by the cup I, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

HENRY WELLINGTON.

Witnesses:
H. D. HUTTON,
J. M. YZNAGA.