

T. J. Barron,

Candle.

No. 112,200.

Patented Feb. 28. 1871.

Fig. 1.

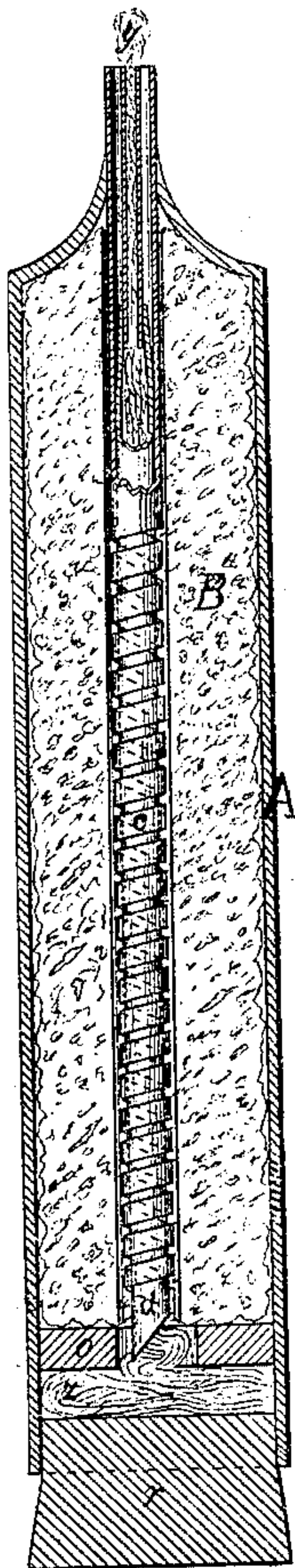


Fig. 2.



Witnesses.

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United States Patent Office.

THOMAS J. BARRON, OF BROOKLYN, E. D., NEW YORK.

Letters Patent No. 112,206, dated February 28, 1871.

IMPROVEMENT IN BURNING HYDROCARBON LIQUIDS FOR LIGHT.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THOMAS J. BARRON, of the city of Brooklyn, E. D., county of Kings and State of New York, have invented a certain new and improved Candle, which I call the "Hydrocarbon Candle," constructed for the purpose of giving the cheapest, safest, and most convenient hand-light yet produced; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 of the drawings is a vertical section of my candle; and

Figure 2 is a detail, showing the wick-tube and wick in place.

My invention has relation to the construction of means for utilizing hydrocarbon fluids for illuminating purposes, and consists in a novel construction and arrangement of devices intended to serve as an illuminating candle for family or other use.

The letter A of the drawings represents a cylinder or wrapper of paper, prepared by immersion in silicate of soda, and which may be colored to suit the taste of the manufacturer.

The letter B represents a filling of sponge, cotton, or other suitable porous material adapted to absorb liquid hydrocarbon.

The letter c represents a spiral or perforated tube of paper, prepared in the same manner as the outer wrapper A, and arranged in a vertical open space in the interior of the filling B.

The letter d represents the wick-tube, also formed of prepared paper, and which has no perforations except at its top and bottom.

The upper end of this wick-tube is constructed of metal, and is marked n on the drawings.

The letter y represents the wick of my candle, and extends from the metal top of its tube to an open space or chamber below the filling, where it is coiled, as shown.

The letter o represents the solid bottom of my candle, having an opening at its center through which or in which the interior cylinders are arranged at their bottoms.

The letter r is a plug inserted inside the lower end of the wrapper A, and made secure in such position as to leave a small chamber between it and the bottom o, in which the candle-wick is coiled. This chamber is marked z on the drawings.

I usually fill the porous material B with hydrocarbon by immersing the entire candle in such fluid.

I claim as my invention—

The hydrocarbon candle herein described, having tubes A, c, and d, of prepared paper, metal tip n, filling B, wick y, chamber z, bottom o, and plug r, when constructed and arranged substantially as specified.

THOMAS J. BARRON.

Witnesses:

J. H. DOWE,

E. L. TALLMADGE, Jr.