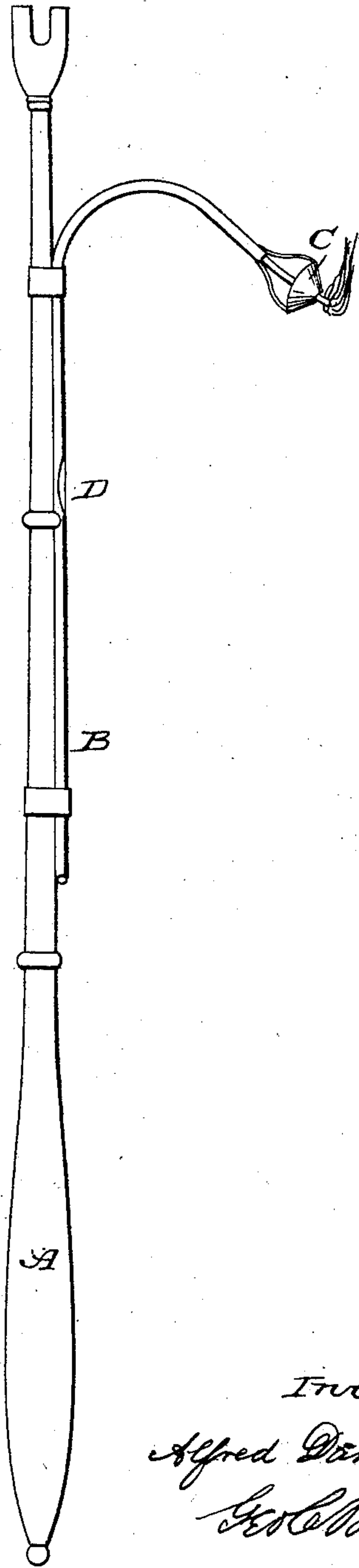


DAMARIN & BROWER.
Gas Lighting Instrument.

No. 27,971.

Patented April 24, 1860.



Witnesses
Thos. Ardy
Myford M. Dougall

Inventors
Alfred Damarin
Geo. C. Brower.

UNITED STATES PATENT OFFICE.

ALFRED DAMARIN AND GEO. C. BROWER, OF NEW ORLEANS, LOUISIANA.

CONSTRUCTION OF INSTRUMENT FOR LIGHTING GAS.

Specification of Letters Patent No. 27,971, dated April 24, 1860.

To all whom it may concern:

Be it known that we, ALFRED DAMARIN and GEORGE C. BROWER, both of the city of New Orleans, in the State of Louisiana, have
5 invented new and useful Improvements in Wax-Taper Torches, Commonly Used for Lighting Gas; and we do hereby declare that the following is a full and exact description thereof, reference being had to the
10 accompanying drawing and to the letters of reference marked thereon.

Our improvements consist in combining the pipe which holds the taper with a gas key; in bending said holder so that the
15 lighted end may be passed into the top of the gas shade; in placing a perforated disk or a funnel shaped flame-guard near the end of the pipe to protect the taper from its own flame; and lastly in leaving an open space
20 between the end of the pipe and the said flame guard for the double purpose of preventing the pipe from becoming hot and to permit the taper to be fed forward by the thumb and finger.

25 To enable others to make and use our invention we will proceed to describe its construction.

A in the drawing represents a wooden staff having a gas key at the end.

30 B' is a brass tube to hold the taper, attached to the staff.

C is a conical guard attached by two wires about an inch long from its base to the end of the pipe, having its apex perforated to
35 allow the taper to pass through.

D is an opening cut into the pipe near its middle to facilitate the extraction of the taper should both ends accidentally be lost.

We are thus enabled to combine the taper with the gas key, an arrangement incom- 40 patible with the straight taper holder; to avoid the smoking of the globe etc, caused by lighting through the bottom; to prevent contact of the taper with heated metal except at the slight point of support close to 45 the flame where it passes through the guard, and to permit the feed to be operated by the fingers without the need of any slides or other apparatus.

We do not claim the gas key nor the tubu- 50 lar taper holder.

What we do claim as our invention and desire to secure by Letters Patent, is—

1. The combination of the wax taper holder with the gas key. 55

2. The bending of the taper holder so as to light gas through the top of the gas globe.

3. The placing a flame guard beyond the end of the taper pipe. 60

4. The leaving an open space between the said guard and the end of the pipe all substantially as described.

ALFRED DAMARIN.
GEO. C. BROWER.

Witnesses:

THEO. IORDY,
MYFORD McDOUGALL.