No. 637,942.

Patented Nov. 28, 1899.

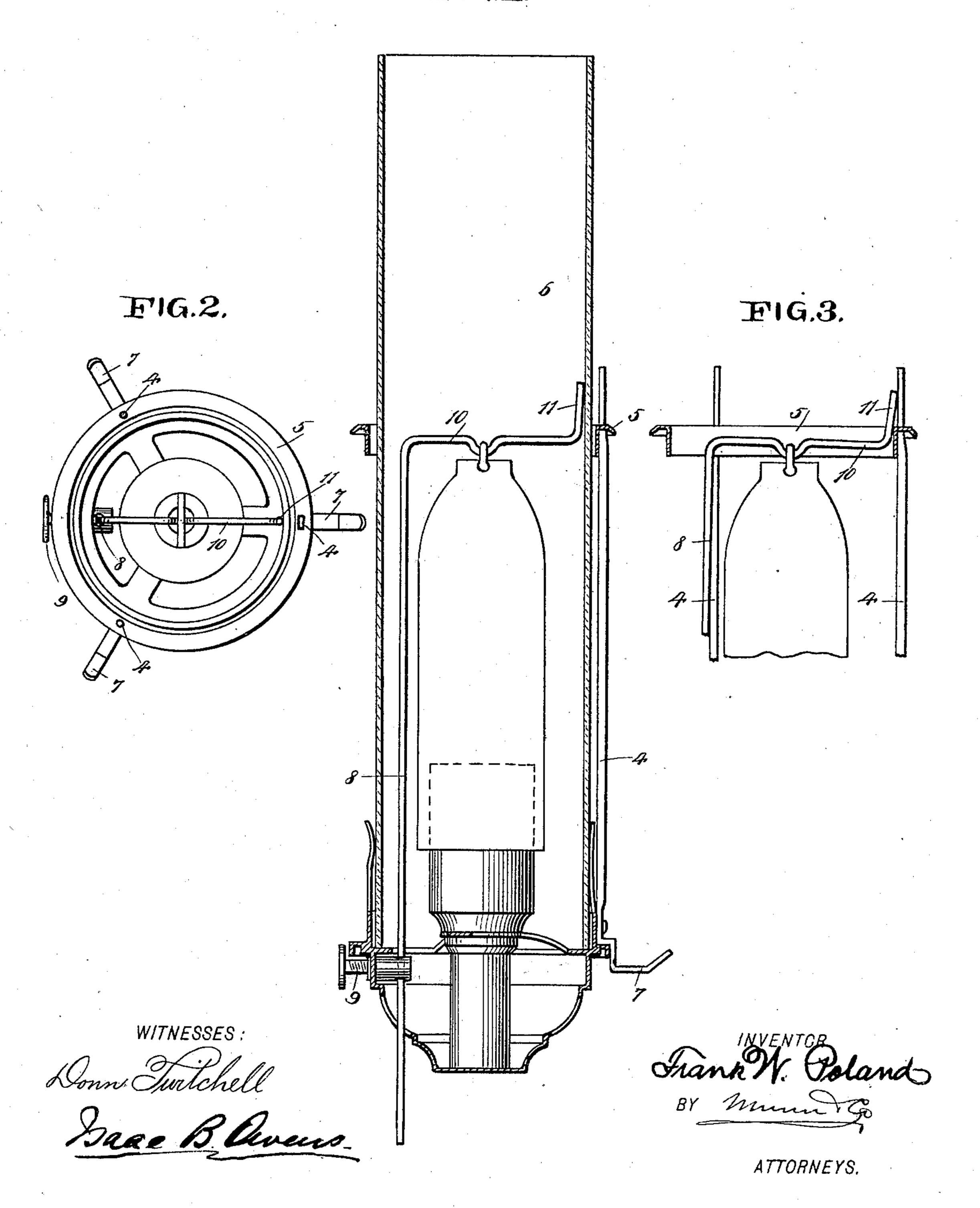
F. W. POLAND.

INCANDESCENT MANTLE SUPPORT.

(Application filed Mar. 8, 1899.)

(No Modei.)

FIG.1.



United States Patent Office.

FRANK W. POLAND, OF EAST LIVERPOOL, OHIO.

INCANDESCENT-MANTLE SUPPORT.

SPECIFICATION forming part of Letters Patent No. 637,942, dated November 28, 1899.

Application filed March 8, 1899. Serial No. 708, 208. (No model.)

To all whom it may concern:

Be it known that I, FRANK W. POLAND, of East Liverpool, in the county of Columbiana and State of Ohio, have invented a new and Improved Incandescent-Mantle Support, of which the following is a full, clear, and exact

description.

The purpose of this invention is to provide means by which to prevent the displacement of incandescent mantles due to the warping and consequent sagging of the support under the influence of the great heat attending the operation of the burner, which end I attain by constructing the burner-supporting rod with a transverse extension at its upper end, which extension projects into immediate proximity to or light contact with a stable part of the burner, so that should the rod sag or buckle this extension will bear positively against the said stable part of the burner and prevent the displacement of the mantle.

This specification is the disclosure of one form of my invention, while the claims define

the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a vertical sectional view of a burner to which my invention is applied. Fig. 2 is a plan view of the same; and Fig. 3 is a fragmentary elevation with parts in section, the view illustrating the arrangement of the invention in the event that a globe as contradistinguished from a chimney be employed.

From the base of the burner to which my invention is applied the usual standard-rods 4 extend upwardly and carry at their upper portions the annulus 5, which supports the chimney 6, if such be employed. If a globe be employed, it is supported from projections 7, extending outward from the base of the burner, all of which will be understood by

those skilled in the art.

The mantle-supporting rod 8 being adjustably held in the base of the burner by a screw 9 extends upward within the chimney and has its horizontal mantle-supporting arm 10 extended beyond the mantle across to the opposite side of the chimney, where it is provided with an upward projection 11, adjusted to lie in immediate proximity to or in light contact with the inner surface of the chimney,

as shown in Figs. 1 and 2. Now should the heat from the burner warp the rod 8 and cause 55 it to buckle the projection 11 will then bear firmly against the chimney and support the arm 10 in the proper position, thus avoiding the displacement of the mantle.

Should the chimney 6 be not used and a 60 globe be used in its stead, the adjustment of the arm 10 and extension 11 will be such as to cause the extension to act against the upper extremity of the adjacent standard 4 in the same manner that the extension acts 65 against the chimney 6 when a chimney is employed. For this purpose the upper extremity of the said adjacent standard 4 is slightly flattened, as may be seen best in Fig. 2. By flattening the standards at their upper 70 extremity a wide bearing-surface is provided for the extension 11 of the arm 10. The extension 11 also bears against the annulus 5, and the annulus and the said adjacent standard jointly support the arm 10.

Having thus described my invention, I claim as new and desire to secure by Letters

Patent—

1. In an incandescent lamp, the combination with the burner having the standards 80 and the annulus, the upper extremity of one of the standards being flattened, of a rod extending upward from the burner, a mantle-supporting arm carried at the top of the rod and extending horizontally across the burner 85 to the opposite side of the annulus, and an upward extension formed on the arm and adapted to bear against the annulus and the said flattened extremity of the standard.

2. An incandescent-mantle support, having a rod adapted to be attached to and supported on the burner and extended upwardly
above the burner, the rod having a horizontal
arm at its upper portion, the arm being directed across the top of the burner and serving to carry the mantle, and the arm having
a free end projected into close proximity with
a stationary part of the lamp, so that should
the rod sag, the free end of the arm will bear
against said stationary part and support the
mantle.

FRANK W. POLAND.

Witnesses:
ISAAC B. OWENS,
JNO. M. RITTER.