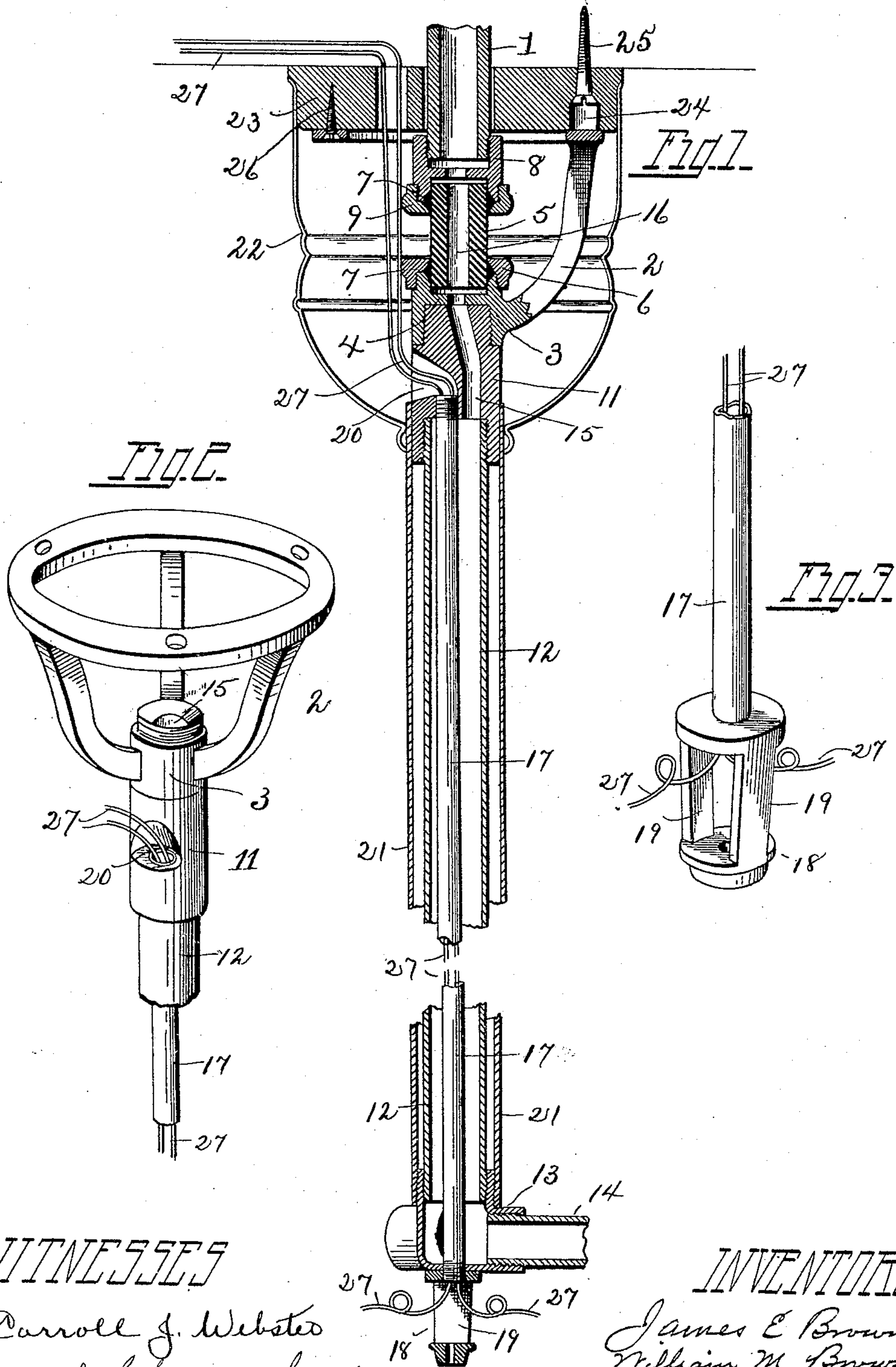


(No Model.)

J. E. & W. M. BROWN.
COMBINATION GAS AND ELECTRIC FIXTURE.

No. 573,387.

Patented Dec. 15, 1896.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES E. BROWN AND WILLIAM M. BROWN, OF TOLEDO, OHIO.

COMBINATION GAS AND ELECTRIC FIXTURE.

SPECIFICATION forming part of Letters Patent No. 573,387, dated December 15, 1896.

Application filed July 20, 1896. Serial No. 599,805. (No model.)

To all whom it may concern:

Be it known that we, JAMES E. BROWN and WILLIAM M. BROWN, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in a Combination Gas and Electric Fixture; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

Our invention relates to a combination gas and electric fixture, having for its object, first, to suspend and support the entire fixture from the ceiling or wall of a house by means of a bracket secured thereto to which the fixture is attached; second, to interpose an insulated coupling between the fixture-supporting bracket and the service gas-pipe, the coupling being of a character to allow of the alinement of the fixture to a true vertical position irrespective of the position of the service-pipe and that shall absolutely preclude the possibility of the current from grounding, due to jumping from the bracket to the service-pipe; third, to prevent the abrasion of the insulation of the conducting-wires by frictional contact with any part of the shell-work, which is accomplished by forming a separate conduit within the gas-pipe for the conducting-wires, which form a free passage for the conductors.

The invention therefore consists in the parts and combination of parts, as shown in the drawings, described in the specification, and pointed out in the claims.

In the drawings, Figure 1 is a vertical sectional view of a combined gas and electric fixture arranged and constructed in accordance with our invention. Fig. 2 is a perspective view illustrating the hanger which supports the fixture and a portion of the gas-pipe and conductor-conduit and the interposed coupling between the same. Fig. 3 is a perspective view of the lower portion of the conductor-conduit and hickey secured thereto.

1 designates the service-pipe, which ex-

tends within the room a short distance and is threaded exteriorly.

2 designates the bracket, which is preferably a crow-foot bracket and has a central enlargement 3, having a diaphragm 4, provided with a central orifice. Secured in the upper end of the enlargement 3 is the lower end of a section 5, which is composed of non-conducting material, the lower end being secured in the enlargement by means of a cap 6, screwed thereon, having an interposed gasket 7.

8 designates a coupling secured upon the lower end of the service-pipe 1, within which the upper end of the insulated section 5 fits and is secured thereto by means of a cap 9 and the interposed gasket 7. By this construction there is allowed a sufficient play of the connection between the bracket and the service-pipe, due to the interposed non-conducting section 5, which fits loosely within the enlargement 3 and the coupling-section 8 to allow the base of the bracket to be secured to a horizontal surface which will aline the fixture secured thereto in a true vertical position irrespective of the position of the service-pipe, this construction also insulating the bracket from the service-pipe in such a manner as to preclude the possibility of the current jumping from one to the other no matter what strength of current is used.

11 designates a coupling-section which is screwed within the enlargement 3 of the bracket 2, and secured within the said coupling-section at its lower end is the vertical gas service-pipe 12, which carries at its lower end the multiple coupling 13, to which the several burner-pipes 14 are secured. Within the coupling 11 is a passage-way 15, there being a passage-way 16 within the insulating-section 5, which provides free passage for gas from the service-pipe into the burner-pipes 14. Arranged within the vertical pipe 12 is a conduit 17, which is secured within the coupling-section 11 at its upper end and the multiple coupling 13 at its lower end, preferably by screwing therein, or any well-known attachment may be used, it only being necessary to make a tight joint to prevent the escape of gas from the service-pipe.

18 designates the hickey, which is prefer-

ably screwed upon the lower end of the conduit 17, the hickey being formed of two plates joined together by the arms 19, as shown more specifically in Fig. 3.

5 20 designates a recess within one side of the coupling-section 11, by which communication is established between the interior of the conduit 17 and the exterior of the fixture, it being understood that any form of shell-
10 work 21 or sliding canopy 22 may be employed which hides the construction of the upper and lower constructions, which present a neat appearance.

In order to insulate the hanger 2 from the
15 ceiling, there is interposed a wooden or analogous non-conducting block 23, provided with countersunk screw-holes 24, in which pass the screws 25, by which to screw the block to the ceiling, the bracket 2 being secured to
20 said block by means of screws 26.

The conducting-wires 27 pass downwardly through the orifice 28 in the block 23 and then outside of the fixtures proper, but within the sliding canopy 22, and are passed through
25 the orifice 20 into and through the conduit 17, passing out at the lower end and connected to their respective lamps in any desired or well-known manner.

It is evident that the precise construction
30 herein shown may be departed from without departing from the spirit of our invention, the essential features being the suspension of the fixture from the ceiling, a coupling

between the suspension-bracket and the end of the service-pipe which shall form an in- 35
sulation between the two and allow of an adjustment of the fixture, and carrying the conducting-wires through conduits arranged within the service-pipe.

What we claim is—

1. In a combination gas and electric fix- 40
ture, a service-pipe, a fixture suspended and supported by means independent of the service-pipe, and an insulated coupling interposed between the fixture and the service- 45
pipe.

2. In a combination gas and electric fix-
ture, the service-pipe, a fixture supported by means independent of the service-pipe, a non-
conducting coupling interposed between the 50
fixture and the service-pipe, a conduit secured within the gas service-pipe of the fixture and communicating exteriorly thereof
55 at the top and the bottom of the same, and conducting-wires passing therethrough and connecting outside of said body above and below the same.

In testimony that we claim the foregoing as our own we hereby affix our signatures in presence of two witnesses.

JAMES E. BROWN.
WILLIAM M. BROWN.

Witnesses:

WILLIAM WEBSTER,
CARROLL J. WEBSTER.