

(No Model.)

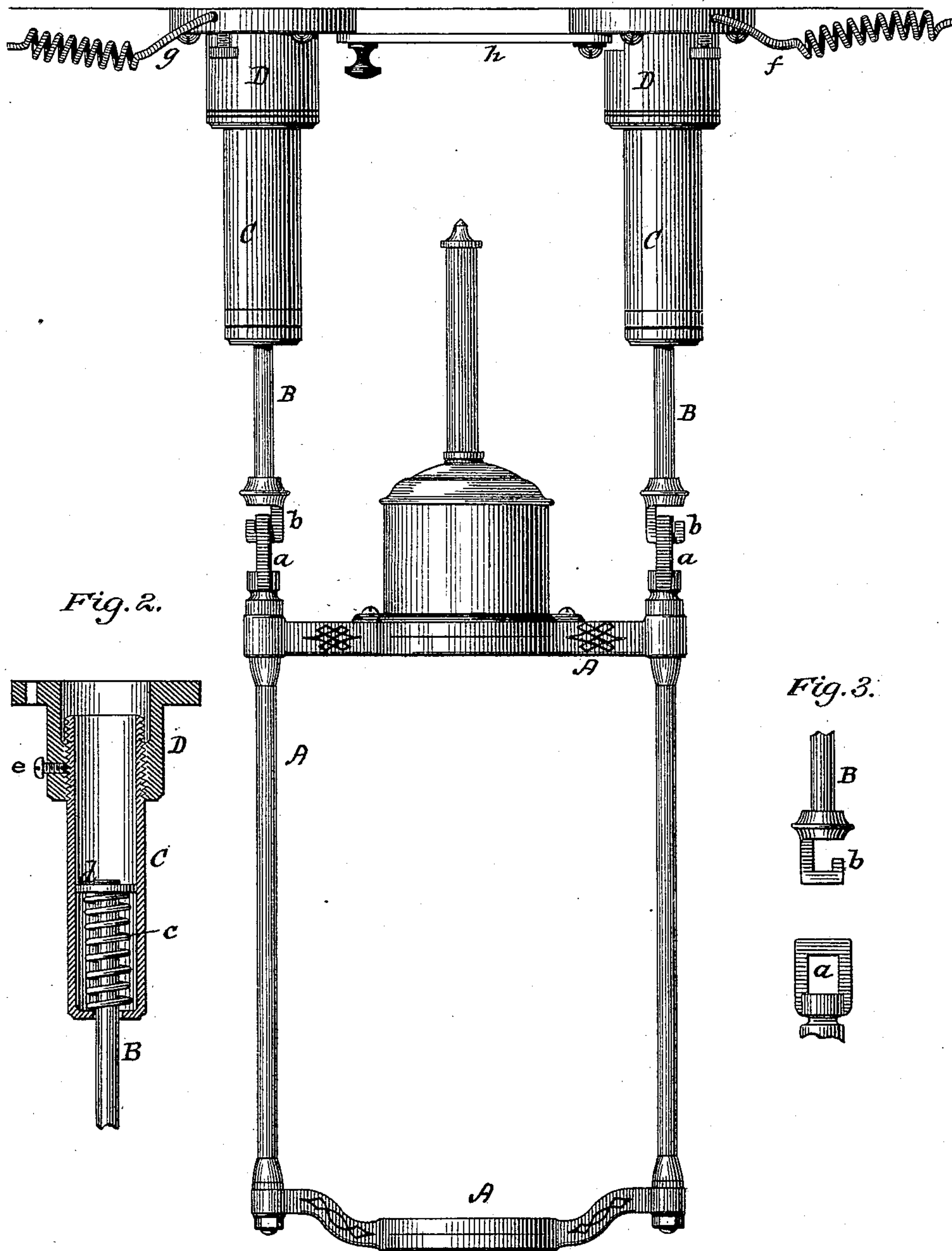
W. B. MASON & E. J. WESCOTT.

HANGER OR SUPPORT FOR ELECTRIC LAMPS.

No. 250,559.

Patented Dec. 6, 1881.

Fig. 1.



Attest:

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their atty.

UNITED STATES PATENT OFFICE.

WILLIAM B. MASON, OF BOSTON, AND EDWIN J. WESCOTT, OF HYDE PARK,
ASSIGNORS OF ONE-HALF TO THE NEW ENGLAND WESTON ELECTRIC
LIGHT COMPANY, OF BOSTON, MASSACHUSETTS.

HANGER OR SUPPORT FOR ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 250,559, dated December 6, 1881.

Application filed June 25, 1881. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM B. MASON,
of Boston, Suffolk county, Massachusetts, and
EDWIN J. WESCOTT, of Hyde Park, Norfolk
5 county, Massachusetts, have invented certain
new and useful Improvements in Hangers or
Supports for Electric Lamps, of which the fol-
lowing is a specification.

The electric-lamp hanger or support which
10 we have devised is elastic or has a spring action.
This, we are aware, is not new, broadly consid-
ered.

Our invention in this direction consists in
the novel instrumentalities and combinations
15 of instrumentalities hereinafter pointed out,
whereby we are enabled to produce an efficient
hanger or support of the kind referred to.

The electric lamp is held at the two sides on
20 top, and in order to insure holding it level or
horizontal we make the two spring-supported
rods or bars by which it is held adjustable up
and down, so that they may be raised or low-
ered with reference to one another, in order to
25 compensate for any inequality in the springs.
The spring-supported rods are connected to
the lamp by a hook or hook-and-loop connec-
tion, which permits the lamp to be tilted for
cleaning or trimming purposes, or to be re-
30 moved from or applied to the rods readily and
quickly. The springs which uphold the lamp-
carrying rods are inclosed in metallic shells or
cylinders in which the upper ends of the rods
also are received; and with a view to obtain-
35 ing in one convenient way capacity for verti-
cal adjustment of the rods these cylinders are
held by and can screw up and down in metallic
sockets made fast to some convenient support.
These sockets are insulated from one another,
40 and are connected with the line-wires, the
electric current passing down through one sup-
port into the lamp, where it is taken care of in
the usual way, and thence out through the
other support. A switch-bar can be connected
45 to one socket-piece and arranged to be capa-
ble of having contact with the other socket-
piece, so as to cut out the lamp when desired.

The nature of our improvements and the
manner in which the same are or may be car-
ried into effect will be readily understood by

reference to the accompanying drawings, in 50
which—

Figure 1 is a front elevation of devices em-
bodying our improvements in their preferred
form. Fig. 2 is a vertical central section of
one of the sockets and the spring incasing cyl- 55
inders or tubes hereinbefore referred to. Fig.
3 is an elevation of one of the hook-and-loop
devices used to connect mechanically and elec-
trically the lamp and lamp-carrying rods.

The electric lamp is indicated in a general 60
way at A, and is of the ordinary construction,
save that at the points where the electrical con-
nections are made it is provided, in lieu of the
usual binding-screws, with broad-faced loops
a. In lieu of loops hooks may be employed; 65
but the former are preferred as being more se-
cure. These loops are engaged by hooks b on
the lower ends of lamp supporting or carrying
rods B, whose upper portions enter metal cyl-
inders or shells C through suitable apertures 70
in the bottoms thereof, and are surrounded by
upholding-springs c, which rest upon the bot-
toms of the cylinders and furnish spring or
elastic bearings for the rods, which for this pur-
pose are furnished with heads d, that rest on 75
top of the springs. The rods under this ar-
rangement are swiveled, so that they may turn
on their axes, and there is sufficient play be-
tween them and the sides of the holes in the
bottoms of the cylinders through which they 80
pass to allow them enough lateral movement
to permit the hooks and loops a b to be readily
engaged with and disengaged from one an-
other. We thus obtain an efficient spring-
support for the lamp, the springs being incased 85
and shielded, and the rods, while having a
spring or elastic bearing, being capable of all
movement needed in order to couple them with
or uncouple them from the lamp; and, further-
more, the hook or hook-and-loop connection 90
by which the lamp and rods are connected
electrically and mechanically permits the lamp
to be tilted while suspended, or to be applied
to and removed from the rods conveniently
and expeditiously.

To provide for vertical adjustment of the
lamp-carrying rods, in order to compensate for
inequalities which may exist between the two 95

springs and for other purposes, we make the spring holding or incasing cylinders C vertically adjustable independently of one another. For this purpose each cylinder is vertically
 5 movable in or with reference to the part by which it is held and supported in position. A convenient arrangement for the purpose is to provide for each cylinder an internally screw-threaded socket-piece, D, in which the upper
 10 end of the cylinder is held, and can be screwed out or in, as indicated in Fig. 2.

Owing to the swivel arrangement of the hook-rods B, the cylinders can be rotated independently of the same, and thus can be adjusted
 15 vertically while the lamp is in place. We remark, so far as this is concerned, that the same effect could be produced by swiveling the hooks to the rods, instead of swiveling the rods in the cylinders. We prefer, however, the ar-
 20 rangement first described.

A set-screw, e, in each socket-piece serves to hold the cylinder firmly in any position to which it may be brought.

The socket-pieces are fastened to any suitable frame or support, and are insulated from one another, and the line-wires are suitably
 25 connected to them at the points f g, as will be understood without further explanation. The electric current passes down through one
 30 socket, cylinder, spring, and rod to and through the lamp, and thence out through the opposite rod and its adjuncts.

In order to cut out the lamp whenever desired, we provide a switch, h, of any suitable
 35 construction, connected to one socket-piece, and adapted in the usual way to make or break connection with the other socket-piece. When the switch is open the circuit is established through the lamp; when the switch is closed a

short circuit is established through the socket-
 40 pieces and intermediate switch, thus cutting out the lamp.

Having described our improvements, what we claim, and desire to secure by Letters Patent, is—

1. The supporting-cylinders insulated from one another and connected with the circuit-
 45 wire, substantially as stated, in combination with the lamp-carrying rods and springs for upholding the same, held in said cylinder and
 50 having electrical connection therewith, and an electric lamp suspended from and connected both mechanically and electrically with said rods by a hook or hook-and-loop connection,
 55 substantially as and for the purposes hereinbefore set forth.

2. Independently vertically adjustable rod and spring holding cylinders, in combination
 60 with lamp-carrying rods and springs, and an electric lamp connected to said rods by a hook or hook-and-loop connection, substantially as hereinbefore set forth.

3. The vertically-adjustable spring and rod holding cylinders and their socket-pieces, provided with electrical connections and switch,
 65 as described, in combination with the swiveled hook-rods, their supporting-springs, and an electric lamp provided with loops or hooks adapted to engage the hook-rods and to electrically connect therewith, substantially as
 70 hereinbefore set forth.

In testimony whereof we have hereunto set our hands this 22d day of June, 1881.

WILLIAM B. MASON.
 EDWIN J. WESCOTT.

Witnesses:

JAS. W. CHAPMAN,
 RUFUS S. MERRILL.