

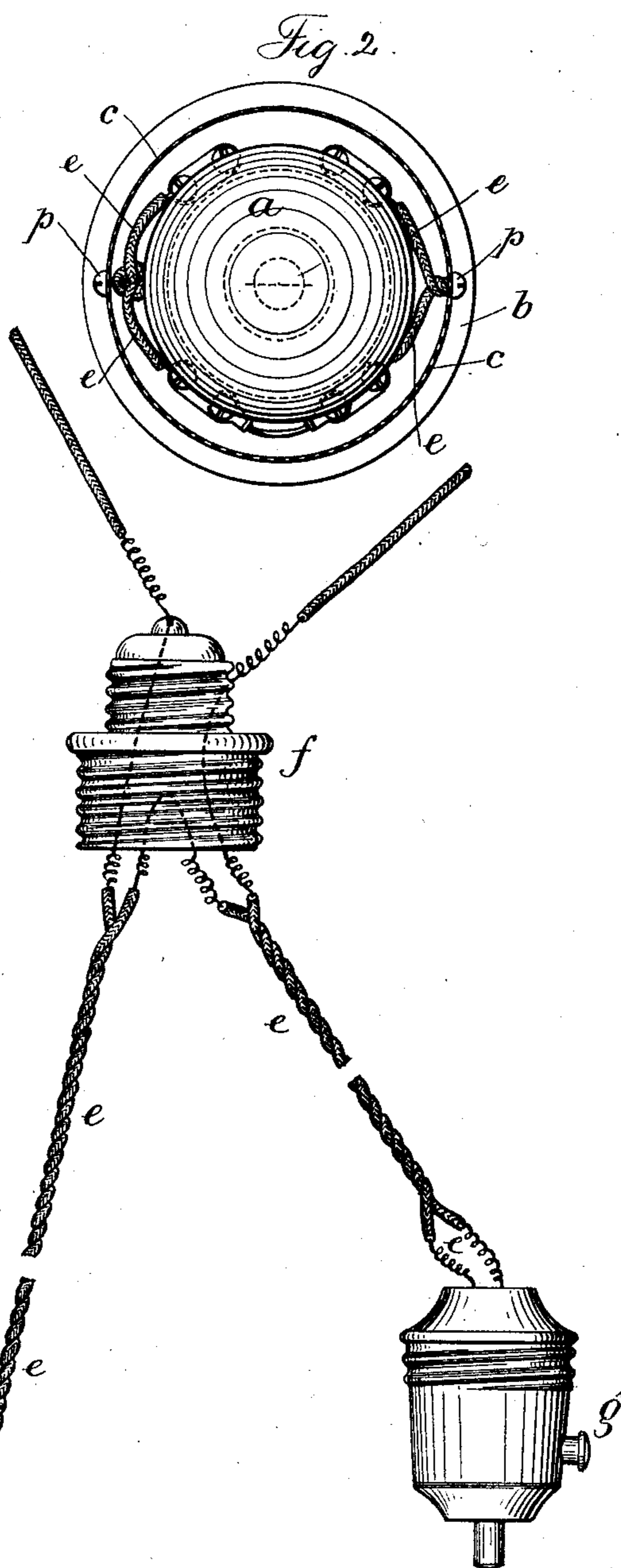
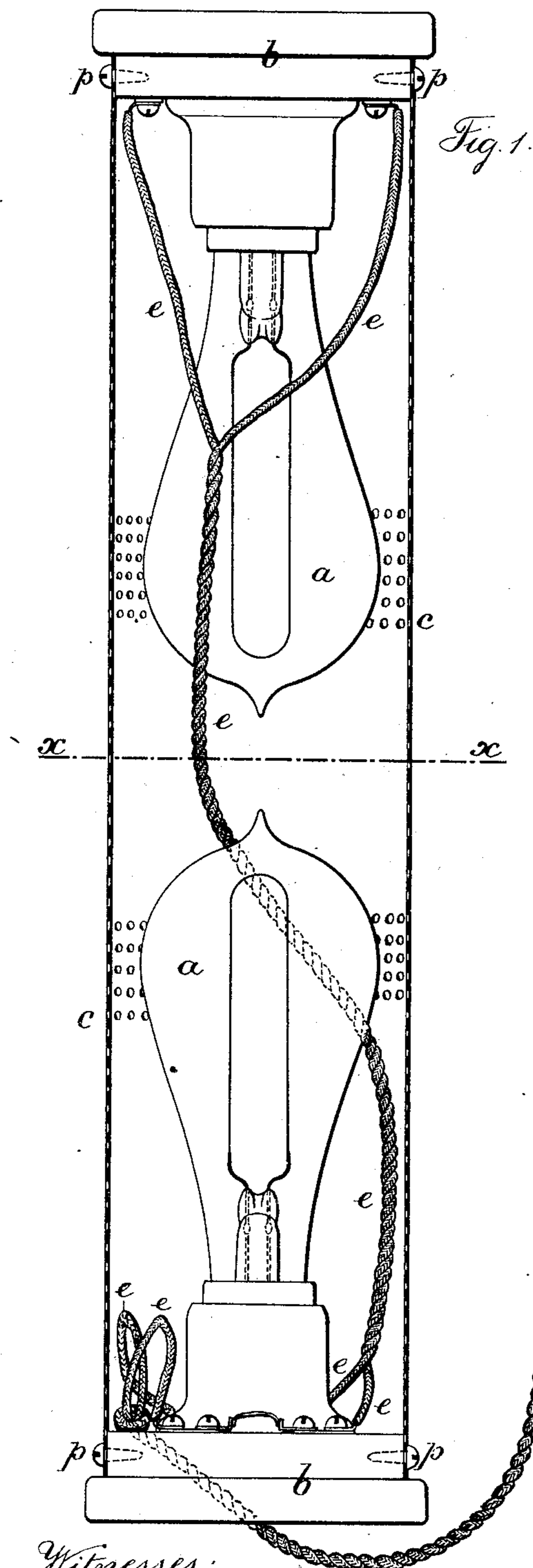
(No Model.)

A. H. BUCKELEW.

ELECTRICAL HEATING APPARATUS.

No. 369,432.

Patented Sept. 6, 1887.



Witnesses:  
J. Staib  
Chas. H. Smith

Inventor:  
Albert H. Buckelew  
per Lemuel W. Ferrell atty.

# UNITED STATES PATENT OFFICE.

ALBERT H. BUCKELEW, OF NEW BRUNSWICK, ASSIGNOR TO HIMSELF, AND  
CHARLES H. BUCKELEW, OF PLAINFIELD, NEW JERSEY.

## ELECTRICAL HEATING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 369,432, dated September 6, 1887.

Application filed January 17, 1887. Serial No. 224,560. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT H. BUCKELEW, of New Brunswick, in the county of Middlesex and State of New Jersey, have invented an Improvement in Bed-Warmers, of which the following is a specification.

The object of this invention is to warm beds and clothing by heat derived from incandescent electric lamps, so that in cases where electric-light wires are provided in the building the bedding can be warmed sufficiently for comfort before retiring, and thus dispense with the use of fire in the bed-room; and my apparatus is also adapted to warming clothing or the feet, or any other desired portion of the body.

In the drawings, Figure 1 is an elevation of the incandescing electric lamps and a section of the case longitudinally, and Fig. 2 is a cross-section at *x x*.

The incandescent electric lamps *a a* are of any ordinary construction. The bases of the glass globes are connected with the end pieces, *b b*, and there is a case, *c*, of sheet metal or other heat-conducting material, connecting the heads or end pieces, *b b*, together and forming a protection around the lamps, and it is preferable to employ perforated sheet metal for the case, in order that the heat radiated from such lamps may pass freely to the bedclothes or surrounding fabrics. The screws *p*, passing through the sheet metal into the end pieces, *b b*, attach the parts firmly together.

The electric current is passed to the lamps by two conductors, *e e*, inclosed in an insulated

and flexible covering, and these lead from any suitable line-wires through a safety-switch or other connecting device at *f*, and a push-button or switch at *g* is included in the circuit, so that the current can be turned on the lamps or interrupted, as required.

The two lamps may be placed in multiple arc or series, as desired, and the wires leading from one lamp to the other are within the case *c*, and all the circuit-wires are provided with an insulated covering.

The warmer is to be placed in the bed or within the clothing and the current turned on, and the warmer moved about sufficiently to raise the temperature to the desired point, and when not in use for heating purposes the lamp may be hung up to act as a night-lamp, because the perforated sheet-metal case modifies and lessens the light.

I claim as my invention—

The case of perforated sheet metal and the heads or end pieces, *b b*, for said case, in combination with two incandescent electric lamps within such case and connected at their bases to the end pieces, *b b*, flexible electric conductors leading from one lamp to the other, a switch or push-button to turn the current on or off, and flexible conductors leading to such lamps, substantially as set forth.

Signed by me this 10th day of January, 1887.

ALBERT H. BUCKELEW.

Witnesses:

G. S. BUCKELEW,  
T. F. CONNOLLY.