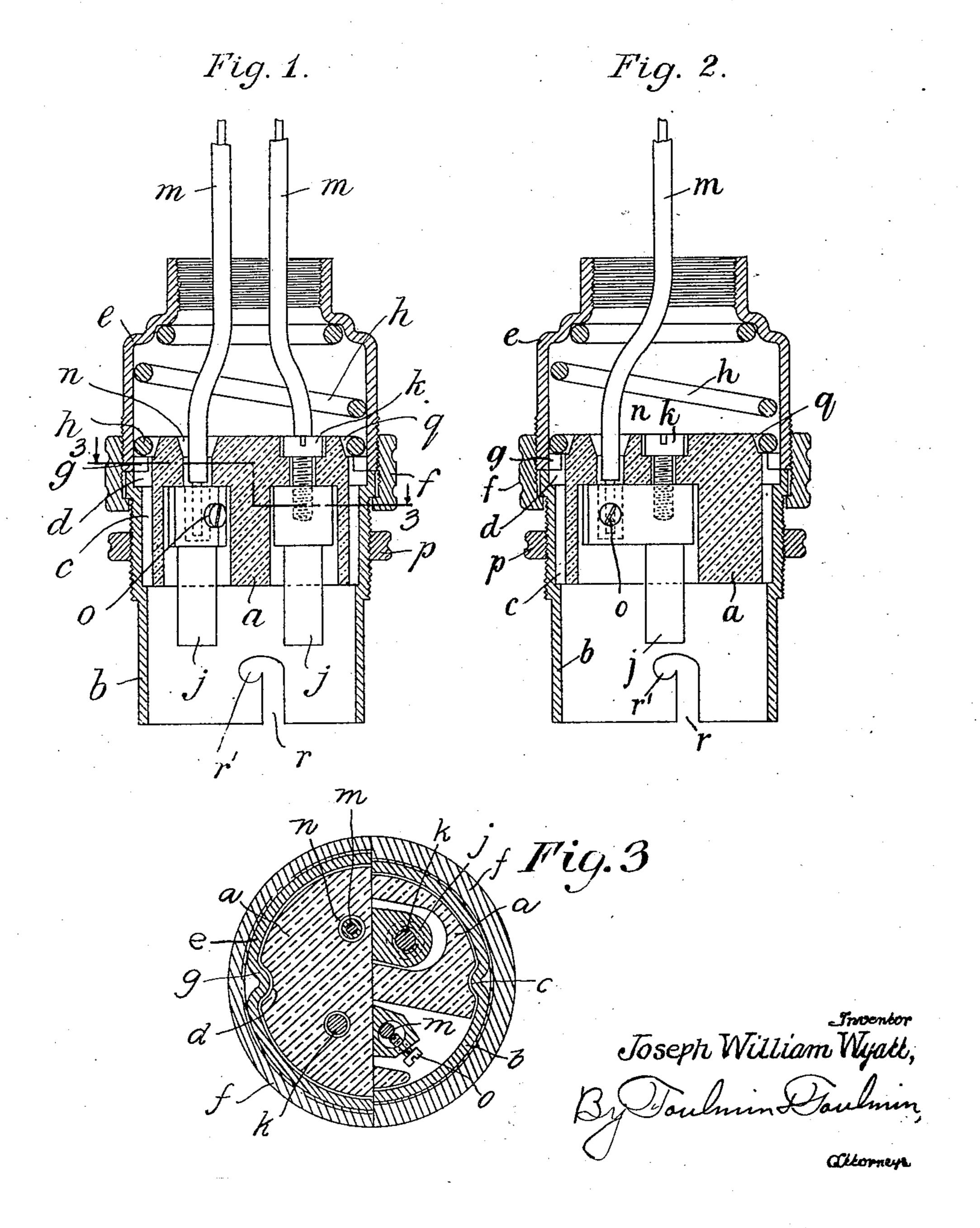
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ELECTRIC LAMP HOLDER

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ELECTRIC-LAMP HOLDER.

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holder adapted to hold lamps of the bayonetthe type in which contact-making pins cor-5 responding in position with the contact pieces on the plug of the lamp are rigidly secured on a spring-actuated insulating support adapted to move as a whole longitudinally of the holder. It has for its object an improved

10 holder of the type referred to.

In bayonet-cap lamp holders of the type as at present in general use, the connections between the supply wires and the lamp terminals are made through spring-pressed plung-15 ers in the holders, the springs being adapted to keep the plungers pressed into contact with the lamp terminals and also to retain the lamp cap secure in the bayonet socket of the holder. It frequently happens that the heat, 20 generated by the passage of the current from the lamp holder terminals through the springs to the plungers, destroys the elasticity 25 whilst the lamp is being inserted in the holder, the springs fail to act and do not press the plungers out again so that a complete connection is not made with the lamp terminals. Especially is this the case when half-watt 30 lamps are used, or where portable hand lamps are supplied through an adaptor and are fitted with carbon filament lamps. It has therefore been proposed to provide a lamp holder with contact-making pins, correspond-35 ing in position with the contact pieces on the plug of the lamp, rigidly secured on a springactuated insulating support adapted to move contact-making pins being in direct contact, towards the mouth of the holder by a suitable spring disposed between the said body and the upper portion of the casing of the holder, said spring being insulated from the current 50 passing through the lamp.

It is, of course, essential that such a holder should be free from any liability to surface leakage. The object of the invention is to provide a holder of the type referred to which 55 is free from risks of "flash-over".

This invention relates to an electric lamp According to this invention, I provide a lamp holder of the type described, charactercap type, and particularly to such holders of ized in that the movable insulating support is constituted by the standard S-shaped vitreous insulating support, which is already 60 provided with recesses for preventing rotation, enabling it to move longitudinally of the holder and in that the spring forcing the insulating support towards the mouth of the holder fits close to the wall of the upper por- 65 tion of the casing so as to be free from risk of accidental contact with current-carrying parts or with the conductors, the spring being held in the upper portion of the casing by the internal projections usually provided 70 thereto to engage the said recesses of the insulating support.

It will be seen therefore that a lamp holder constructed according to this invention retains every removable element of the existing 75 standard bayonet-cap lamp holder, which can be fitted to the holder proper, according to in the springs and consequently when the this invention, without any alteration. This plungers are pressed into the holder body is a particularly important advantage from the point of view of facility and cheapness of 80

manufacture.

In the accompanying drawings:

Fig. 1 shows a form of lamp holder made in accordance with my invention illustrated partly in section and partly in elevation. 85

Fig. 2 is a like view illustrating an alter-

native form, and

Fig. 3 is a section taken on the line 3—3 of Fig. 1 and looking in the direction of the arrows.

a is a vitreous porcelain body of the usual type, fitted into the lower member b of the as a whole longitudinally of the holder, said holder proper and prevented from rotating therein by internal projections c on the memor forming part of, terminals embedded in ber b engaging with grooves d on the insulat- 95 the insulating support. In such a lamp ing support a, but which allow of vertical holder, the insulating support, while capable movement of the insulating support a in the of longitudinal movements inside the holder, member b. The upper member or cap poris provided with suitable means preventing tion e of the holder is secured to the lower 45 it from rotating in the holder, and is pressed member b in the known manner by means of 100 the locking ring f. Internal projections gon the member e, engaging with the grooves d, prevent circular movement of said member relatively to the insulating support a. A helical spring h is disposed between, and bear- 105 ing against, the top of the insulating support a and the underside of the top of the member e so as to normally press the body down into the member b. Two pins j j, of brass or the like, are disposed in the recesses formed by the 110

design of the insulating support a and are holder and the insulating support it contains rigidly secured therein by set screws k passed are removed. 5 threaded opening in the top of the holder adapted to hold bayonet-cap lamps, for ex-10 together with the slots r therein, provides the hand lamp body, which may be of wood or 15 with the "live" metal parts of the holder.

terminals on the bayonet-cap thereof will make contact with the pins j j. The porcelain support a will be pressed upwards in the 20 holder against the spring h. When the lamp What I claim and desire to secure by Lethas been turned in the bayonet socket of the ters Patent is: 25 and it will also lock the projecting pins on the spring member, an insulating support havspring h.

As the spring inserted inside the upper lugs on said cap and lower member entering standard holder for the purpose of engaging and lower member. 35 the grooves d of the insulating support, and is retained therein so that it is prevented from falling out when the lower member of the

through the top of the support. The two It will be seen that this invention may be 40 service wires m m are passed through the applied to various types of lamp holders member e and are connected to their respec- ample, to portable hand lamp fittings with or tive pins j by being passed through holes n without a wire cage and/or a glass globe. In in the insulating support a and secured to the this case the holder member b will be pro- 45 pins by set screws o. The holder member b, vided with a flanged top and secured to the usual bayonet socket for the lamp. p is the porcelain, by clamping the flanges between shade ring. The spring h rests in a recessed the body and wood ring or the like, studs portion q of the porcelain body a so that said fixed in the lamp holder body passing through 50 spring is prevented from making contact the ring and having nuts on their outer ends. The porcelain body a is disposed in the holder When a lamp is inserted in the socket, the member b as before and the spring h is disposed between the porcelain a and the top of a recessed portion in the hand lamp holder 55 body.

holder, the spring h will press the porcelain A lamp holder of the class described comsupport a down so as to retain the pins j j in prising a cap member, a spring member, lugs 60 contact with the terminals on the lamp cap, on said cap member for supporting said lamp cap in the portions r^1 of the slots r. By ing grooves, a lower member having means this arrangement any heating of the "live" for connection to said cap member, lugs on portions of the holder will not affect the said lower member, contact making pins 65 mounted on said insulating member, said member e of the holder fits close to the wall, said grooves on the insulating member whereit is kept in position inside the upper member by relative rotative movement is prevented by the internal projections g provided in the between said insulating member, cap member 70

In testimony whereof, I affix my signature.

JOSEPH WILLIAM WYATT.