

(No Model.)

H. E. SWIFT.  
ELECTRIC LAMP SOCKET.

No. 458,242.

Patented Aug. 25, 1891.

Fig: 1.

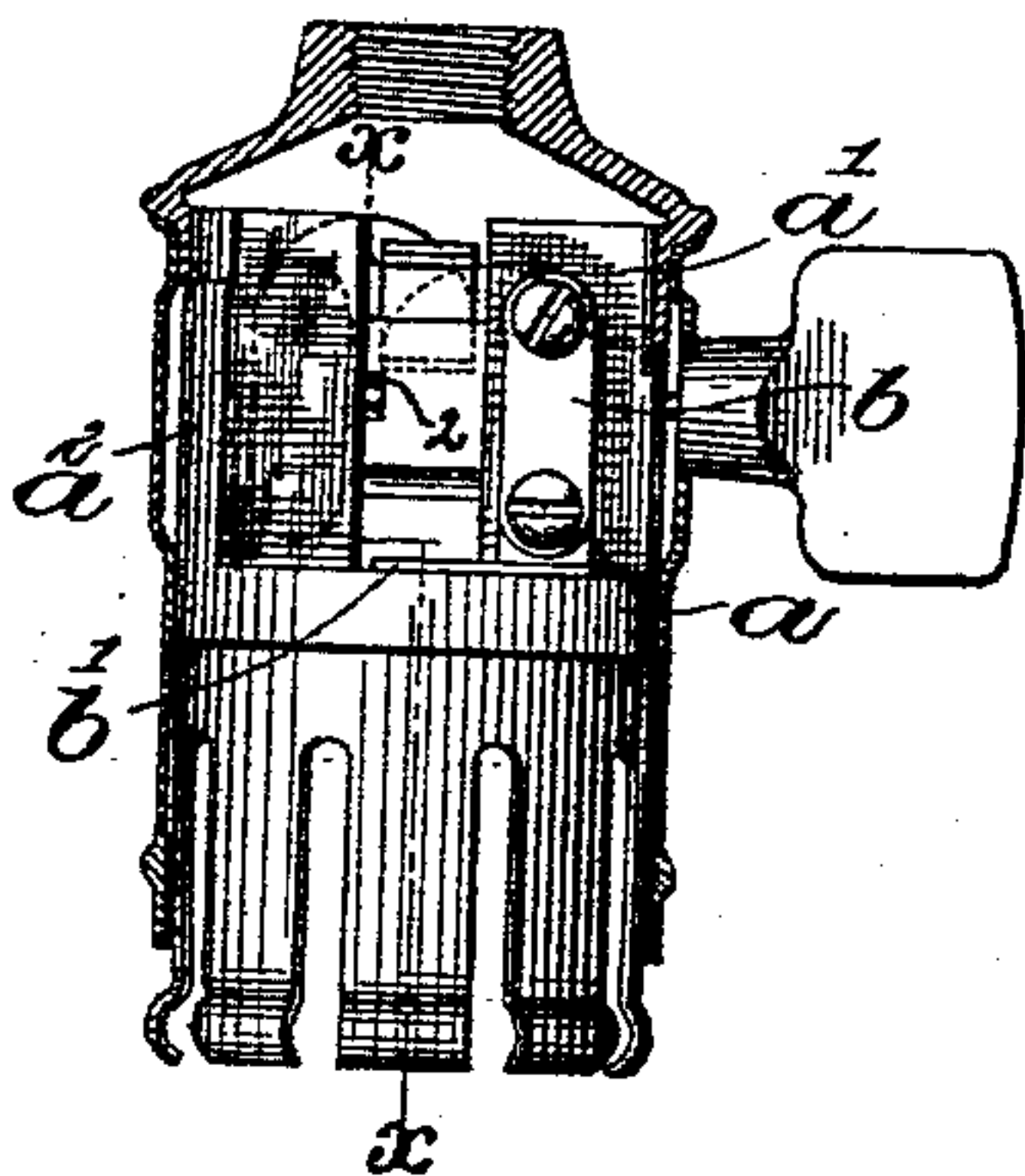


Fig: 2.

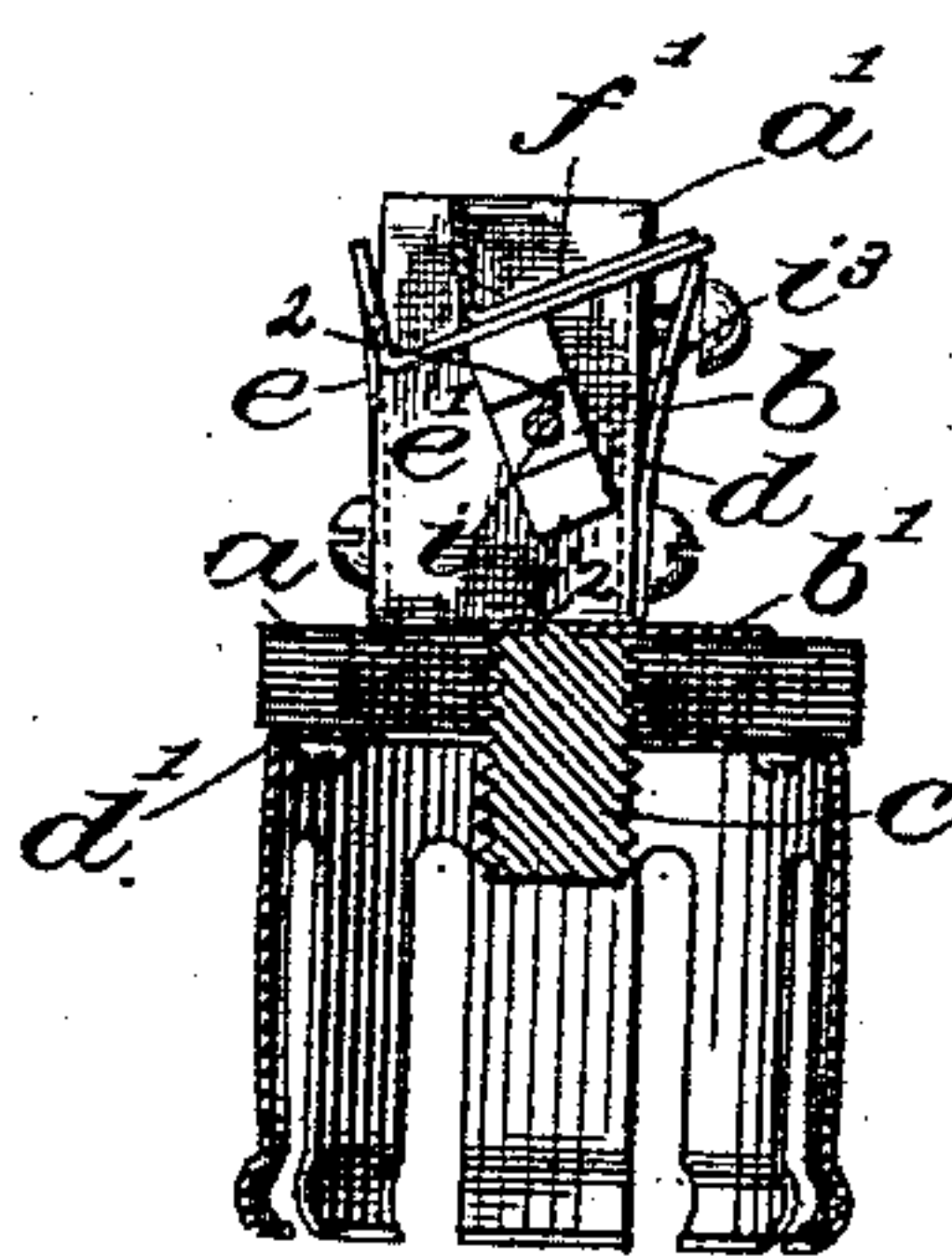


Fig: 3.

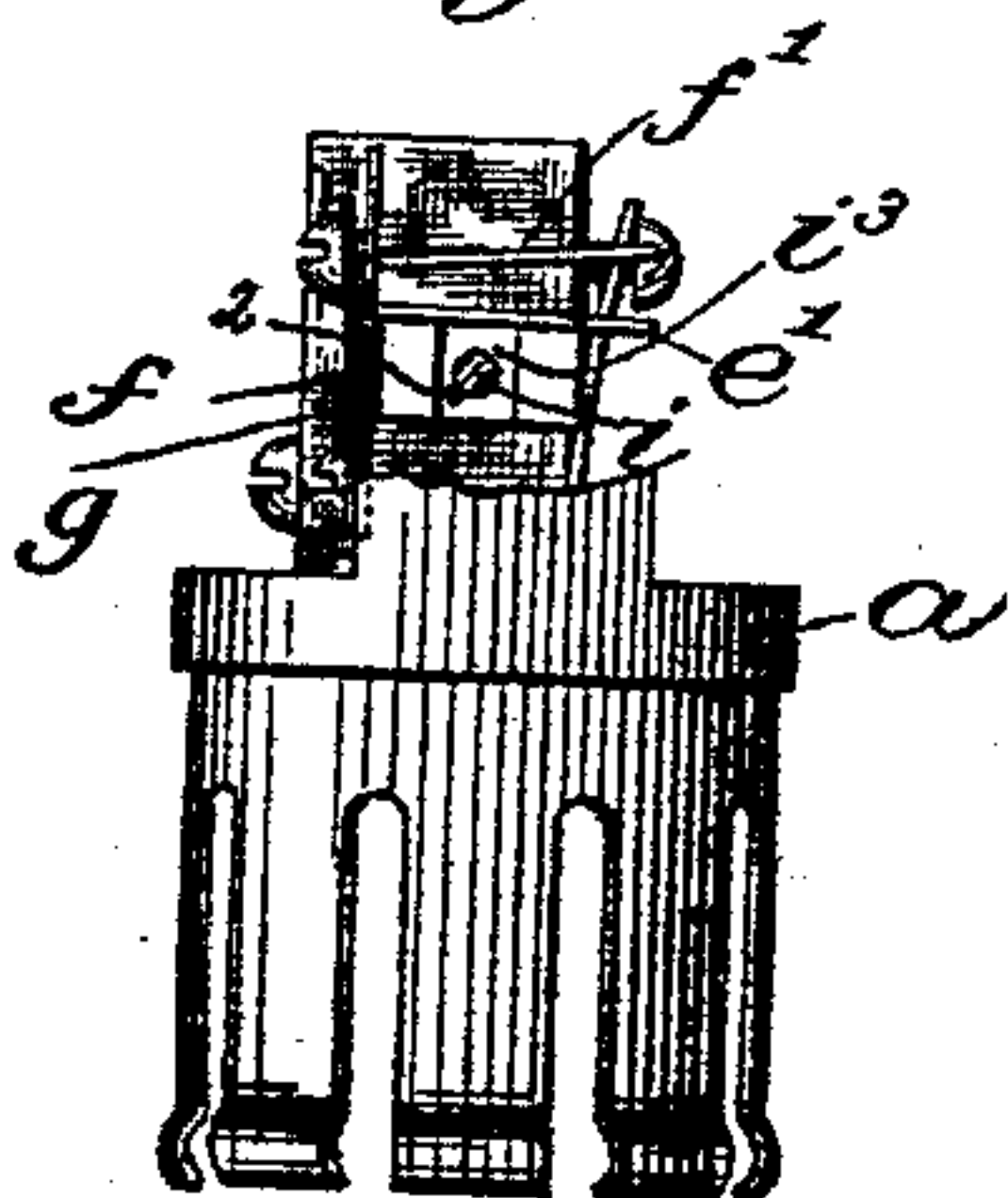
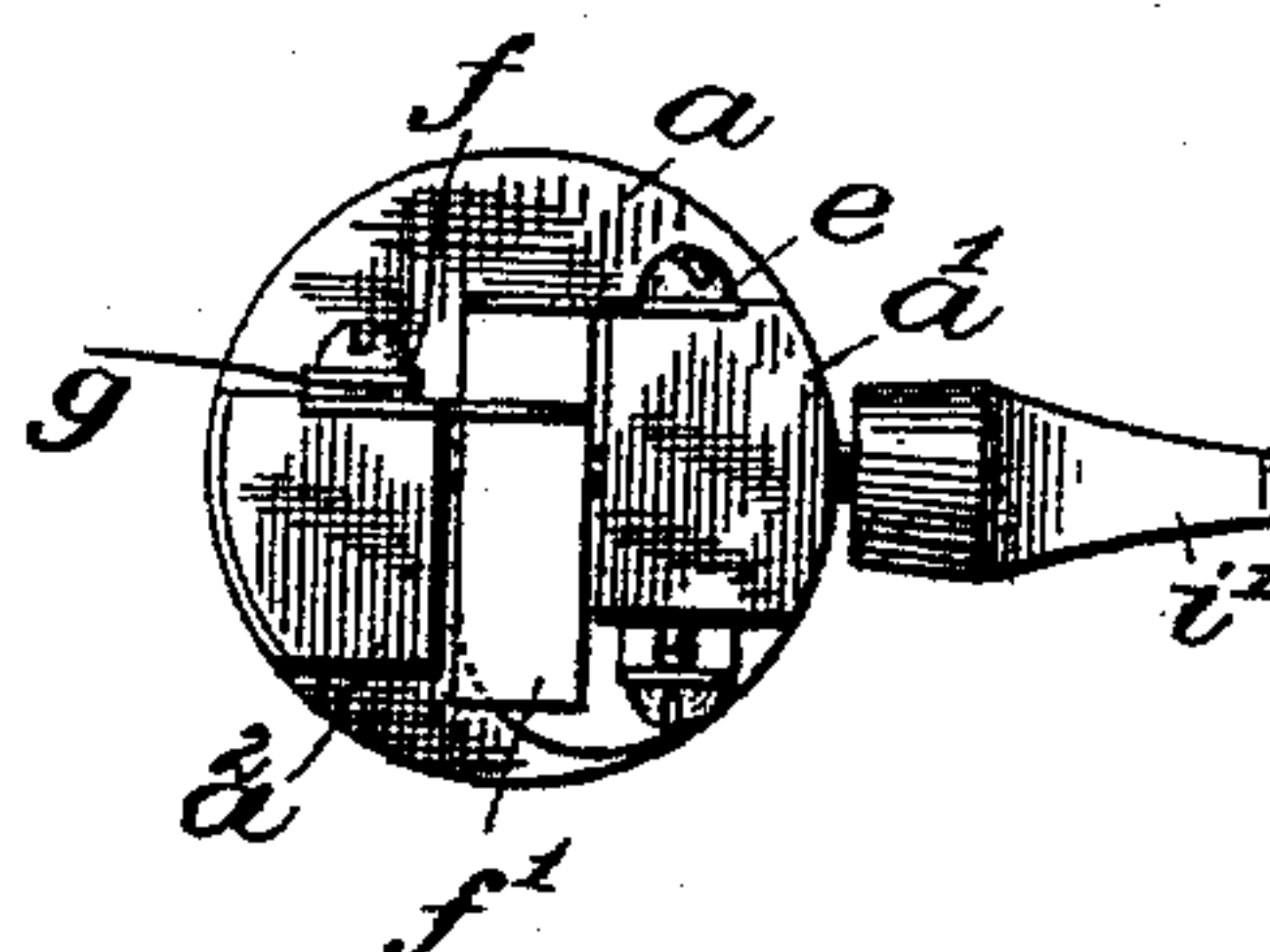


Fig: 4.



Witnesses.

Fred S. Greenleaf.  
Louis N. Howell

Inventor.

Horace E. Swift.  
by Leroy Gregory  
attys

# UNITED STATES PATENT OFFICE.

HORACE E. SWIFT, OF BOSTON, MASSACHUSETTS.

## ELECTRIC-LAMP SOCKET.

SPECIFICATION forming part of Letters Patent No. 458,242, dated August 25, 1891.

Application filed March 23, 1891. Serial No. 386,023. (No model.)

*To all whom it may concern:*

Be it known that I, HORACE E. SWIFT, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in  
5 Switches for Incandescent Electric Lamps, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

10 This invention has for its object to improve the construction of switches for incandescent electric lamps; and it consists in details of construction to be hereinafter pointed out.

Figure 1 shows in vertical section an incandescent-electric-lamp socket embodying  
15 this invention, the shell or case being broken away to expose the switch; Fig. 2, a vertical section of the parts shown in Fig. 1, taken on the dotted line  $x x$ , the shell or case being removed; Fig. 3, a side view of the parts shown  
20 in Fig. 1, the shell or case being removed; Fig. 4, a plan view of the parts shown in Fig. 1, the shell or case being removed.

A block  $a$ , of rubber or other insulating material, is cut away to form a support for the  
25 various parts of the switch. To the post  $a'$  on the block  $a$  a metallic plate  $b$  is secured, which is bent at its lower end to present a flat portion  $b'$ , which rests on the base of the  
30 block  $a$ , as shown in Figs. 1 and 2, said plate being connected with one terminal of the lamp, as  $c$ , for instance. A small plate  $d$  is placed on the plate  $b$  and held thereto by suitable screws, and between these plates  $b$  and  $d$   
35 a circuit-wire is placed. To the opposite side of the post  $a'$  of the block  $a$  another plate, as  $e$ , is secured, which extends down through the base of the block and connects with the terminal  $d'$  of the lamp, and which is bent at its  
40 upper end at substantially right angles to present a plate  $e'$ , which lies between the posts  $a'$  and  $a^2$  of the block  $a$ . To the post  $a^2$  a plate  $f$  is secured, which is bent at substantially right angles, as shown, to present a  
45 plate or portion  $e'$  lying between the posts  $a'$  and  $a^2$ , and just below the plate or portion  $f'$ . A small plate  $g$  is secured to the plate  $f$  by suit-

able screws and the other circuit-wire is placed between the plates  $f$  and  $g$ .

A shaft or arbor  $i$  has its bearings in the  
50 posts  $a'$  and  $a^2$ , which has at its outer end a thumb-piece  $i'$ , and on said shaft between the posts  $a'$  and  $a^2$  a rectangular block  $i^2$  is mounted loosely, said block being cut away, as at  $i^3$ , Figs. 2 and  
3, to receive pins 2, projecting from the shaft. 55

The contact plates or portions  $e'$  and  $f'$  are made spring-acting, and are adapted to bear on one or another side of the rectangular block  $i$ , and as said block is turned the said  
60 contact-plates  $e'$  and  $f'$  will be elevated until the corner of the block arrives at such a point as to allow said springs to move the block independently of the shaft, such function being  
common in jump or quick-acting switches.

It will be seen that when the block is in one  
65 position (see Fig. 2) the contact-plates  $e'$  and  $f'$  will bear on each other, and when in another position (see Fig. 3) said plates will be separated, and when the plate  $e'$  is lifted against the plate  $f'$  by said block a slightly-rubbing  
70 contact is obtained.

I claim—

In a switch for incandescent lamps, the combination of the following instrumentalities, viz: a block  $a$ , having posts  $a'$  and  $a^2$ , a plate  $b$ ,  
75 having a portion or plate  $b'$  connected with one terminal of the lamp, the plate  $e$ , connected with the other terminal of the lamp and having the contact-plate  $e'$ , the plate  $f$ , having the contact-plate  $f'$ , adapted to make  
80 and break connection with the contact-plate  $e'$ , the said contact-plates  $e'$  and  $f'$  being spring-acting, the rectangular-block  $i^2$ , the shaft  $i$ , on which it is mounted, and the pin 2 and thumb-piece  $i'$ , all substantially as and for  
85 the purposes set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HORACE E. SWIFT.

Witnesses:

BERNICE J. NOYES,  
EDWARD F. ALLEN.