

W. N. STURGEON & H. R. SHANLEY.

ELECTRIC CUT-OFF.

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983,178.

Patented Jan. 31, 1911.

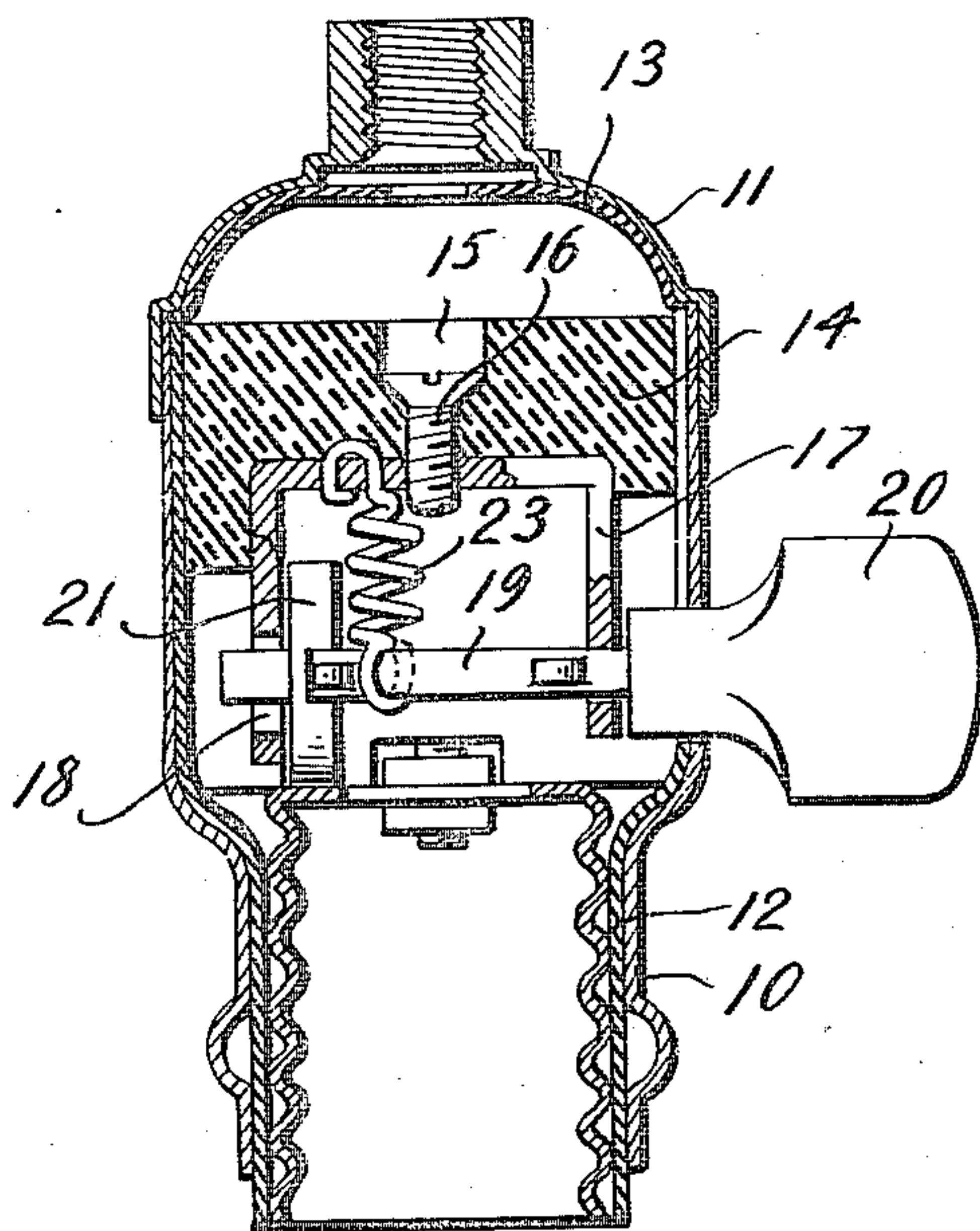


Fig. 1

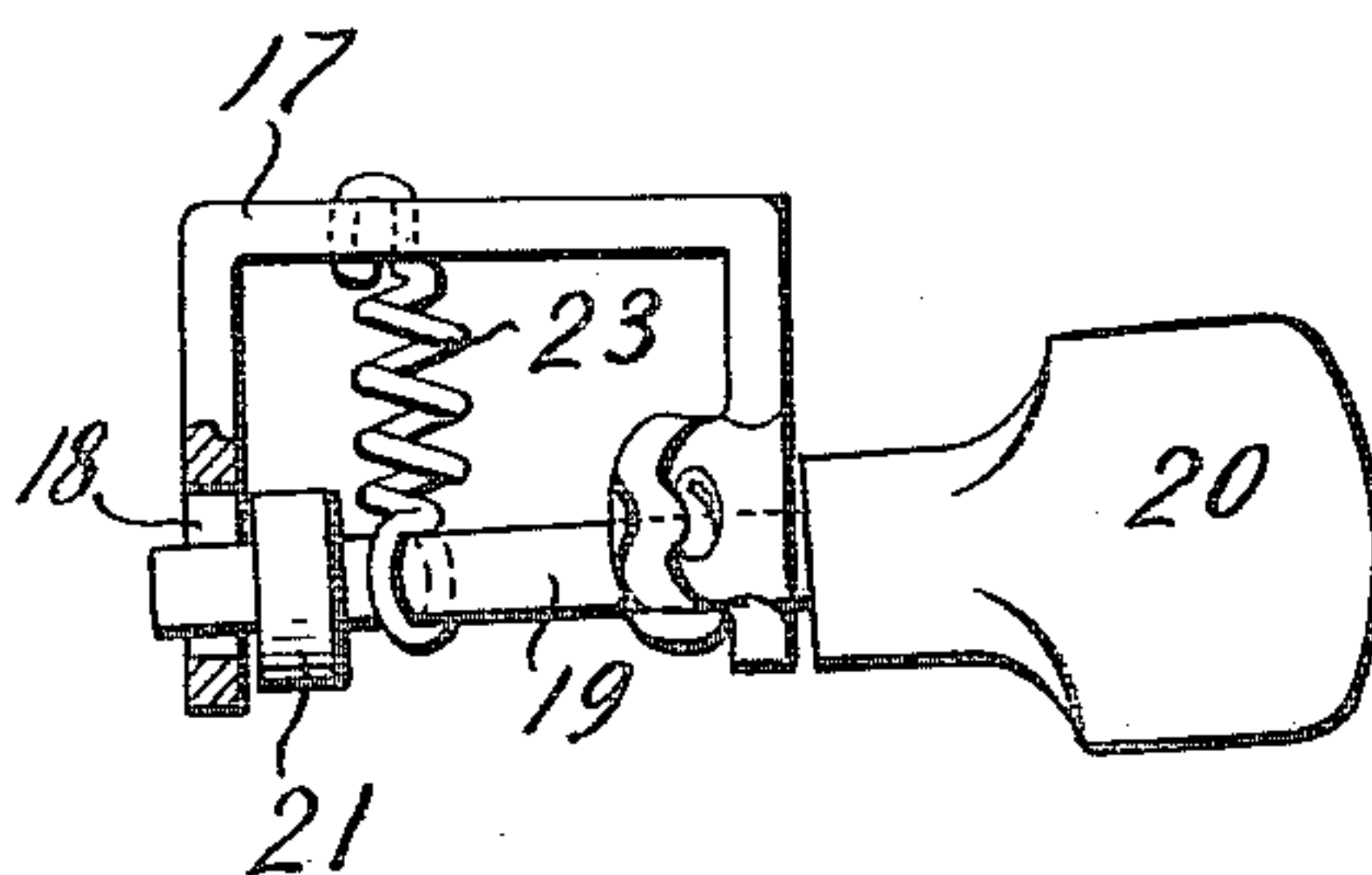


Fig. 2

Witnesses

*E. Larson*  
*Charles Wilson*

By

Inventors  
*W. N. Sturgeon*  
*H. R. Shanley*  
*Becker & Robb*  
Attorneys



# UNITED STATES PATENT OFFICE.

WILLIAM NELSON STURGEON AND HENRY RICHARD SHANLEY, OF GALESBURG, ILLINOIS.

## ELECTRIC CUT-OFF.

983,178.

Specification of Letters Patent. Patented Jan. 31, 1911.

Application filed April 29, 1910. Serial No. 558,425.

*To all whom it may concern:*

Be it known that we, WILLIAM NELSON STURGEON and HENRY RICHARD SHANLEY, citizens of the United States, residing at 5 Galesburg, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Electric Cut-Offs, of which the following is a specification.

This invention has reference to electric 10 light cut-offs and is designed particularly to construct a cut-off wherein the snap may be eliminated so that damage of the fiber of the lamp will be reduced.

With the above and other objects in view, 15 this invention consists in the construction, combination, and arrangement of parts, all as hereinafter more fully described, claimed and illustrated in the accompanying drawings, wherein—

20 Figure 1 is a central longitudinal section of a lamp socket illustrating the construction of the switch mechanism therein; Fig. 2 is a front elevation of the switch yoke, illustrating the position of the elements 25 thereof when the current is shut off.

In carrying out the present invention the key is mounted in a bearing yoke so that the inner terminal thereof is slidably mounted in a slot in said yoke and carries the switch 30 block adjacent to the slot in the yoke. A coiled spring is interposed between the base of the yoke and the shaft of the switch so that the same will exert a pull and pressure upon the shank due to the various positions 35 of the block.

Referring more particularly to the drawings the outer shell 10, the cap 11, and the linings 12 and 13, of the socket are of standard construction and are therefore not described in the present specification. An insulated base 14 is mounted in the shell 10 40 and is provided with a central orifice 15 through which extends a screw 16 engaging the base of the bearing yoke 17.

45 In one side of the bearing yoke 17 is constructed a slot 18 in which the inner termi-

nal of the switch shaft 19 reciprocates, the outer terminal of said switch shaft projecting through the opposite side of the bearing yoke and the shell 10 where it is provided 50 with the key 20. A switch block 21 is mounted on the shank 19 adjacent the inner terminal thereof and the slot in the bearing yoke, said switch block adapted to create a contact in the usual manner. 55

The base of the bearing yoke is pierced by a pair of openings in which one terminal of the coiled spring 23 is securely fastened, the opposite terminal of the coiled spring being snugly wound about the key shank 19, 60 and is adapted to retain the key in any position in which it is placed and eliminating all snap which has heretofore been found objectionable in electric sockets.

Having thus described the invention, what 65 is claimed as new is:

1. In a lamp socket, the combination with a lamp contact, of a bearing yoke insulated therefrom having a slot formed in one arm thereof, and a pair of openings in the base 70 thereof, a key shaft operating in said yoke, one terminal thereof reciprocating in said slot, and a coiled spring having one terminal thereof secured in said openings and the other wound snugly about the key shank. 75

2. In a lamp socket, the combination with a lamp contact, of a bearing yoke insulated therefrom, a key shaft operating in said yoke, and a coiled spring having one terminal thereof centrally secured to the base of 80 said yoke, and the opposite terminal secured to the shaft adapted to insure a contact and eliminate the snap upon the rotation of the key shaft.

In testimony whereof we affix our signatures in presence of two witnesses. 85

WILLIAM NELSON STURGEON.  
HENRY RICHARD SHANLEY.

Witnesses:

JAS. H. MCKAMY,  
F. G. ROGERS.