

No. 640,001.

Patented Dec. 26, 1899.

I. KITSEE.
ELECTRIC FUSE.

(Application filed June 26, 1899.)

(No Model.)

FIG. 1.

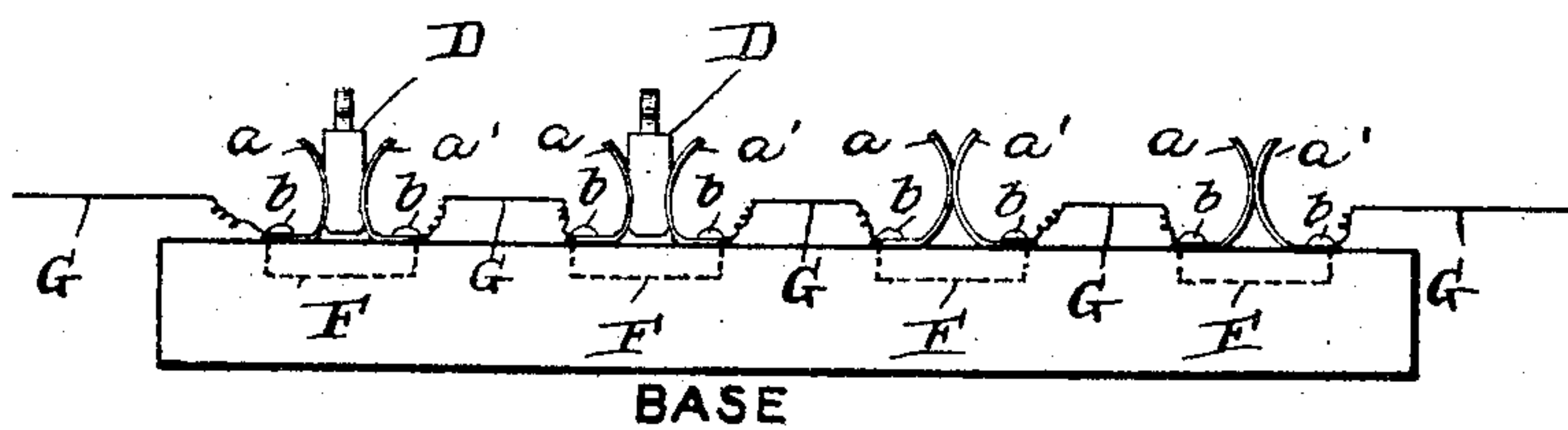
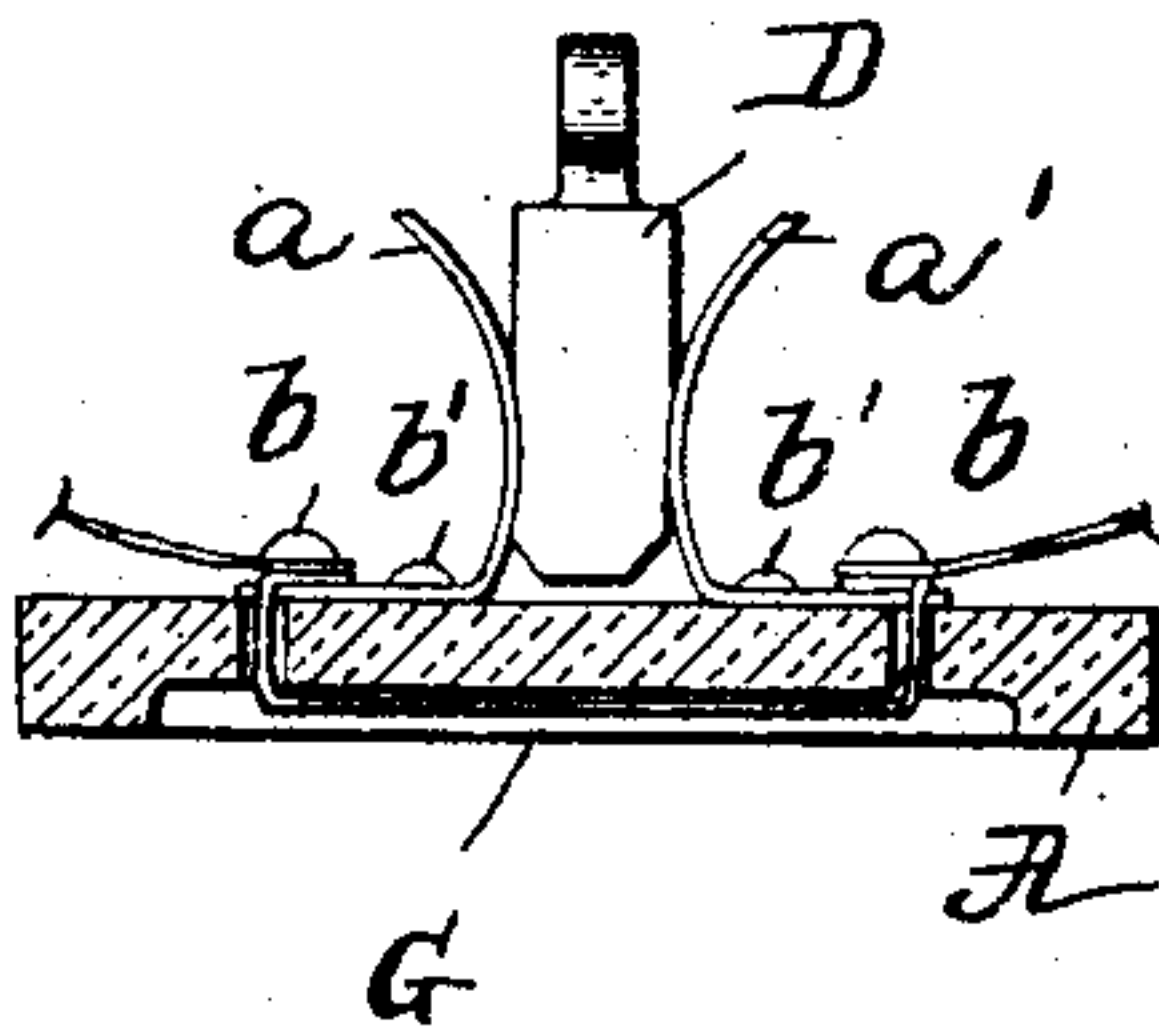


FIG. 2.



WITNESSES:

Jesse B. Heller
E. C. Stacey

I. Kitsee INVENTOR

UNITED STATES PATENT OFFICE.

ISIDOR KITSEE, OF PHILADELPHIA, PENNSYLVANIA.

ELECTRIC FUSE.

SPECIFICATION forming part of Letters Patent No. 640,001, dated December 26, 1899.

Application filed June 26, 1899. Serial No. 721,938. (No model.)

To all whom it may concern:

Be it known that I, ISIDOR KITSEE, of the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful
5 Improvement in Electric Fuses, of which the following is a specification.

My invention relates to an improvement in electric fuses.

The object of my invention is to produce an
10 efficient and compact device useful for single or magazine fuses.

In all devices for fuses of to-day the terminals of the circuits to be fused are normally secured to the fuse-block at a greater or lesser
15 distance from each other and the intervening space spanned by the conductor designed to fuse or break if a larger current than desired is flowing over the circuit.

In my invention the terminals of the circuit to be provided with fuse are normally kept together and separated or held apart by non-conducting material if it is desired that the path of the current shall be only through the fuse-wire. This arrangement is advantageous in single, but more so in magazine
25 fuse devices.

Referring to the drawings, Figure 1 is a diagram illustrating several of these fuses in a series. Fig. 2 is a side elevation, partially
30 in section.

A is the base, of non-conducting material, preferably porcelain.

a a' are conducting spring-plates secured to the plate or base A by the screw *b'*.

b are connecting-screws for the purpose of connecting one pair of springs to the next following.

F is the fuse proper, G the circuit-wires, and D the non-conducting blocks.

40 The *modus operandi* is as follows: Normally the conducting-springs *b b* of each separate device press against each other, and the path of the current is therefore from the circuit-wire G through the springs *b*, and in very
45 small proportion to the fuse F; but if it is de-

sired to fuse the circuit then all that is necessary is insert the non-conducting block D between the pair of spring-plates *b b*.

The advantages of this arrangement are obvious. First of all, if the fuse F of the first
50 device is blown all that is necessary is to take the non-conducting block or separator from this device and insert it into the second device, and, second, if it is desired to fuse currents of high voltage the spring-plates of two
55 or more of these devices can be separated at one and the same time by the non-conducting blocks or separators to increase the gap if the fuse is blown.

Having now described my invention, what
60 I claim as new, and desire to secure by Letters Patent, is—

1. In electricity a magazine fuse-block consisting of the base proper, a series of spring-contacts mounted upon a common base and
65 in electrical connection with each other, each pair of spring-contacts being provided with a fuse-wire, means to connect the terminals of an electric circuit to said block and means for separating one or the other of said pairs
70 of spring-contacts.

2. In an electric magazine fuse device, a series of pairs of spring-contacts, normally in electrical connection with each other and provided each with a fuse, in combination with
75 a non-conducting separator designed to separate one or the other of said spring-contacts.

3. An electric fuse consisting of conducting-springs normally in electrical contact with each other, the fuse proper connected in multiple arc to said contact-springs, and a non-conducting wedge keeping said conducting-springs out of contact from each other.

In testimony whereof I sign my name, in the presence of two subscribing witnesses, this
85 12th day of May, A. D. 1899.

ISIDOR KITSEE.

Witnesses:

E. R. STIELEY,

WALLACE B. ELDRIDGE.