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G. KAPP & G. A. ALVISET.
GAS LIGHTER FOR AUTOMOBILES.
APPLICATION FILED FEB. 28, 1906.

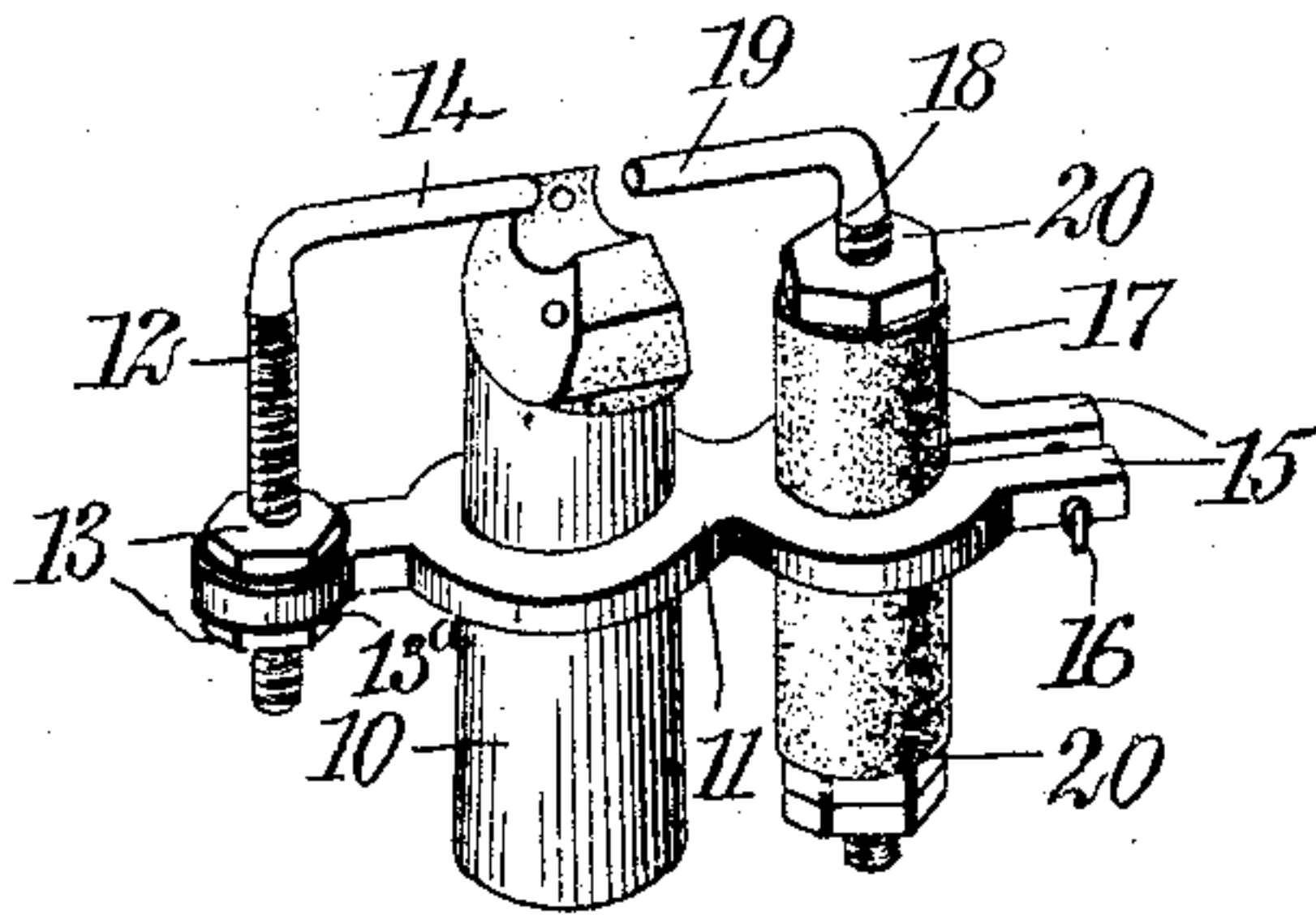
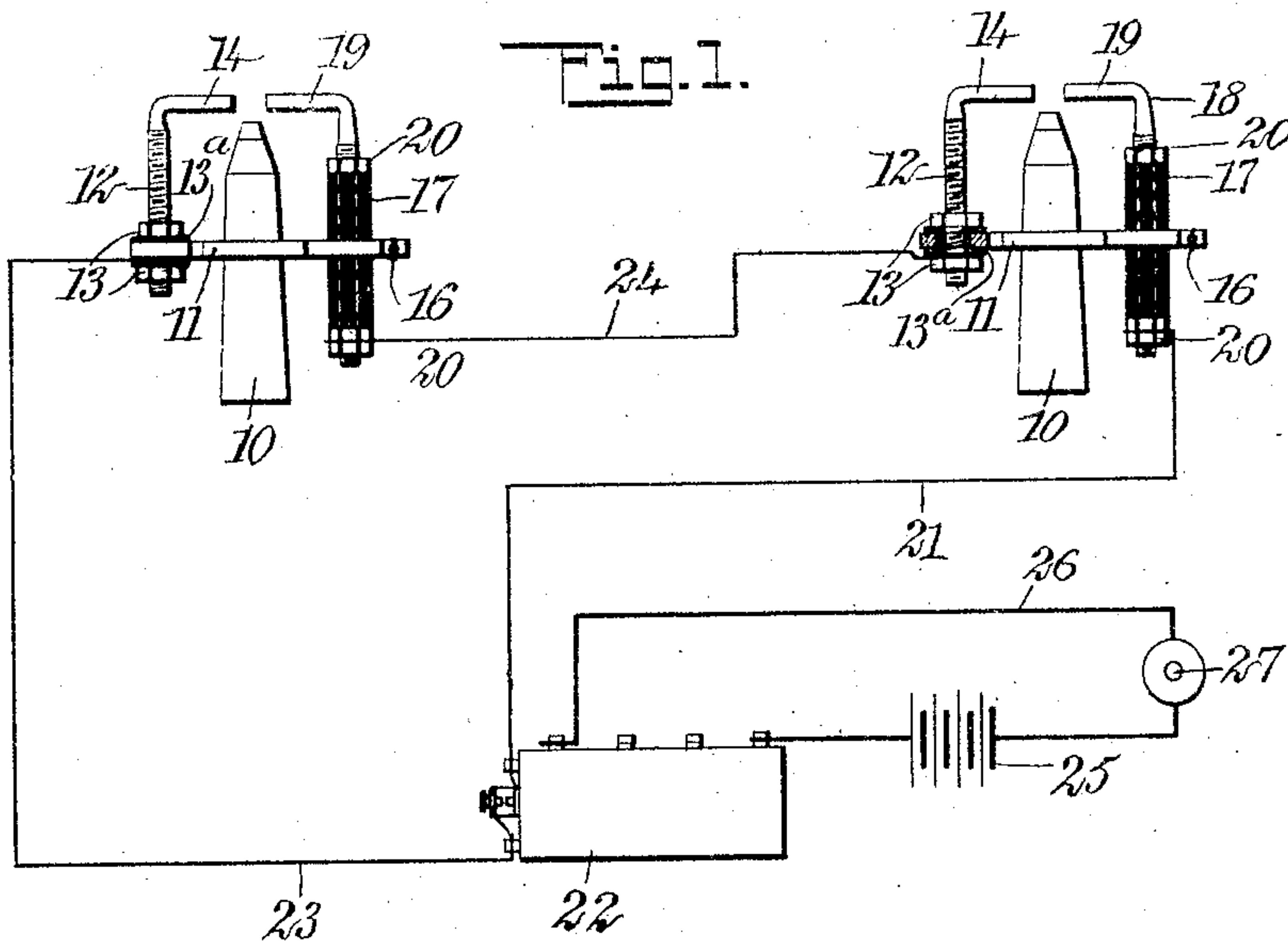


Fig. 2.

WITNESSES:

L. Blomquist.
A. E. Fay.

INVENTORS

George Kapp
Gustavus A. Alviset

BY

Mum & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE KAPP, OF GREENWICH, CONNECTICUT, AND GUSTAVUS A. ALVISET,
OF PORT CHESTER, NEW YORK.

GAS-LIGHTER FOR AUTOMOBILES.

No. 845,553.

Specification of Letters Patent.

Patented Feb. 26, 1907.

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To all whom it may concern:

Be it known that we, GEORGE KAPP, a citizen of the United States, and a resident of Greenwich, in the county of Fairfield and State of Connecticut, and GUSTAVUS A. ALVISET, a citizen of the United States, and a resident of Port Chester, in the county of Westchester and State of New York, have invented a new and Improved Gas-Lighter for Automobiles, of which the following is a full, clear, and exact description.

Our invention relates to a gas-lighter especially designed for use on automobiles and in similar places.

The principal objects of the invention are to provide means whereby a jump-spark can be employed for igniting an acetylene or other gas burner, especially on automobiles which are equipped with Ruhmkorff coils, batteries, and the like.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

Figure 1 is a diagrammatic view showing our invention and a method of wiring up the same to provide for simultaneously lighting two gas-jets, and Fig. 2 is a perspective view of the means which we employ for producing the spark.

On each of the gas-jets to be lighted, we place a collar 10, having a plate 11 extended therefrom. On the plate 11, near one end, is mounted a threaded bar 12, having a lateral member or terminal 14 on one end thereof. The bar 12 is adjustably secured on the plate 11 at one side of the tube 10 by nuts 13 and insulated by non-conducting washers 13^a or in any other manner. In place of these, if desired, and on the opposite end of the plate 11 a pair of compressible jaws 15 embrace an insulating-tube 17, that is secured in place by a screw 16, that engages said jaws, the insulating-tube being of porcelain or other suitable material.

A threaded bar 18 is inserted in the tube 17 and is therein adjustably clamped by nuts 20, that are mounted on the bar and have contact with opposite ends of the tube. As shown in Fig. 1, the nuts 13 and 20 serve to

connect ends of wires 21 and 24 to the bars 12 and 18.

On an end of the bar 18 is formed a lateral member or terminal 19, that is disposed opposite the terminal 14, and said terminals are opposite the tip of the gas-burner. When it is desired to ignite two or more burners at once, they can be arranged as shown in Fig. 1, the conductor 21 connecting the secondary of a Ruhmkorff coil 22 with one of the bars 18, the secondary also being connected by a conductor 23 with the screw 12 of the same or another instrument. The two or more instruments are connected in series by a conductor 24 or the like. It will of course be understood that instead of some of the wires the terminals may be grounded or other substitutes of any desired character made for the kind of wiring shown. We have indicated a battery 25, a conductor 26, and push-button 27 for operating the device.

It will be observed that by the use of an apparatus of this character, whether connected up in the manner illustrated or otherwise, the clumsy and inefficient devices which have heretofore been employed for lighting acetylene and other burners on automobiles and similar places can be dispensed with and the lighting effect produced merely by pressing a button and without the employment of a great deal of additional wiring to that which is already used on automobiles and in other places where gas-engines are employed. The device is exceedingly simple and inexpensive, while its operation, as will be obvious, is sure and exact.

Having thus described our invention, we claim—

The combination with the gas-burner, of a plate having a central opening to receive the burner, and end openings, one of said end openings being slotted, an insulated sleeve in said slotted opening, a screw traversing the sides of the slot whereby to retain the sleeve in place, a threaded contact-bar having an angular terminal above the burner in the sleeve, nuts engaging the bar at each end of the sleeve, a threaded bar having an angular terminal above the burner in the other end opening, and insulated from the plate, nuts engaging the bar above and below the plate

for securing said bar in its adjusted position,
an electric circuit having its terminals con-
nected with the threaded bars and including
one of the circuits of a spark-coil, and a sec-
5 ond circuit connected with the other circuit
of the spark-coil, said circuit including a bat-
tery and a push-button.

In testimony whereof we have signed our

names to this specification in the presence of
the subscribing witnesses.

GEORGE KAPP.

GUSTAVUS A. ALVISET.

Witnesses:

HENRY PETERS,

GEO. E. PINCKNEY,

BENJ. IRVING TAYLOR.