

A. C. GRUHLKE.
CIGAR LIGHTER.
APPLICATION FILED APR. 23, 1908.

925,171.

Patented June 15, 1909.

Fig. 1.

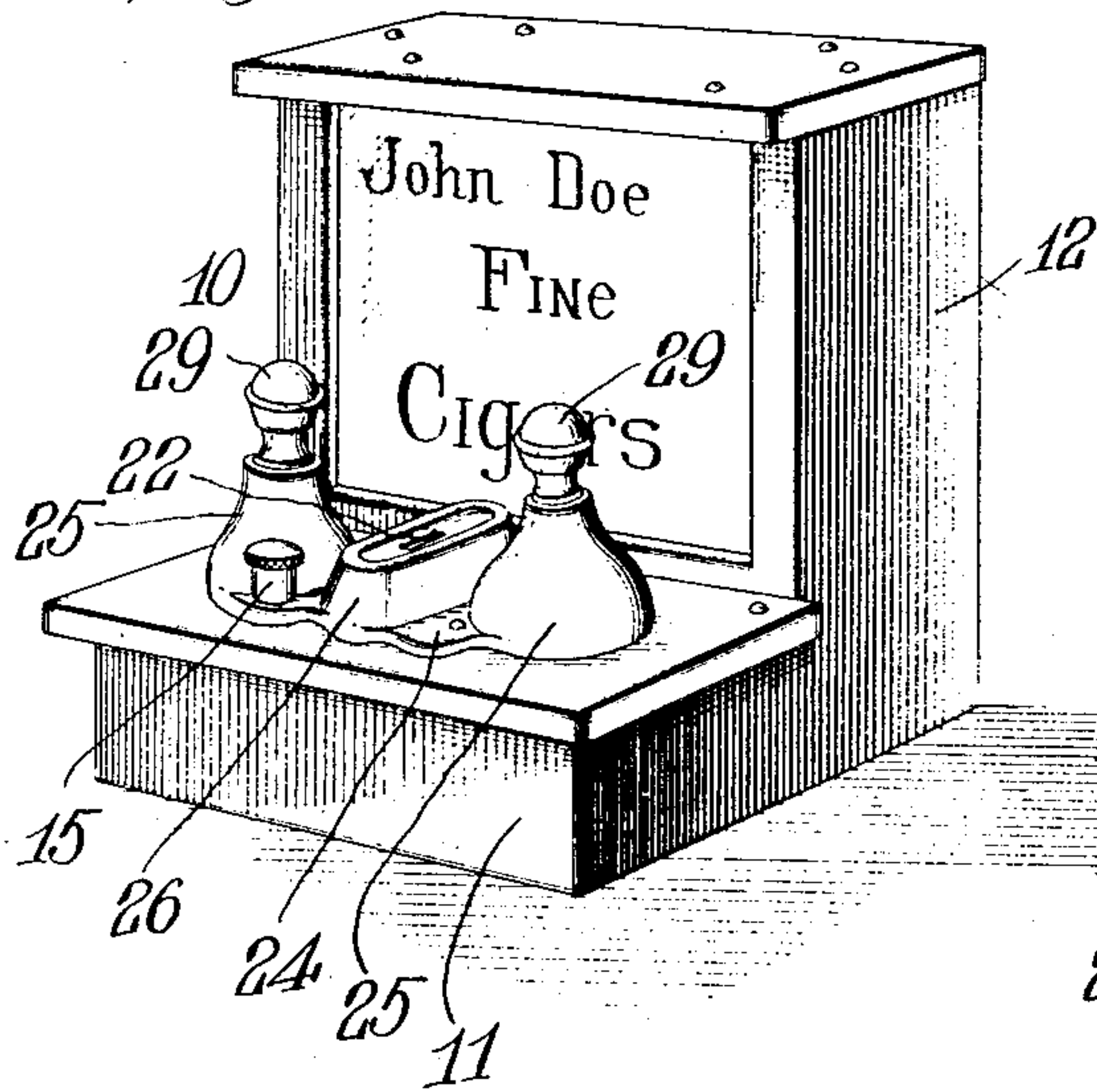


Fig. 2.

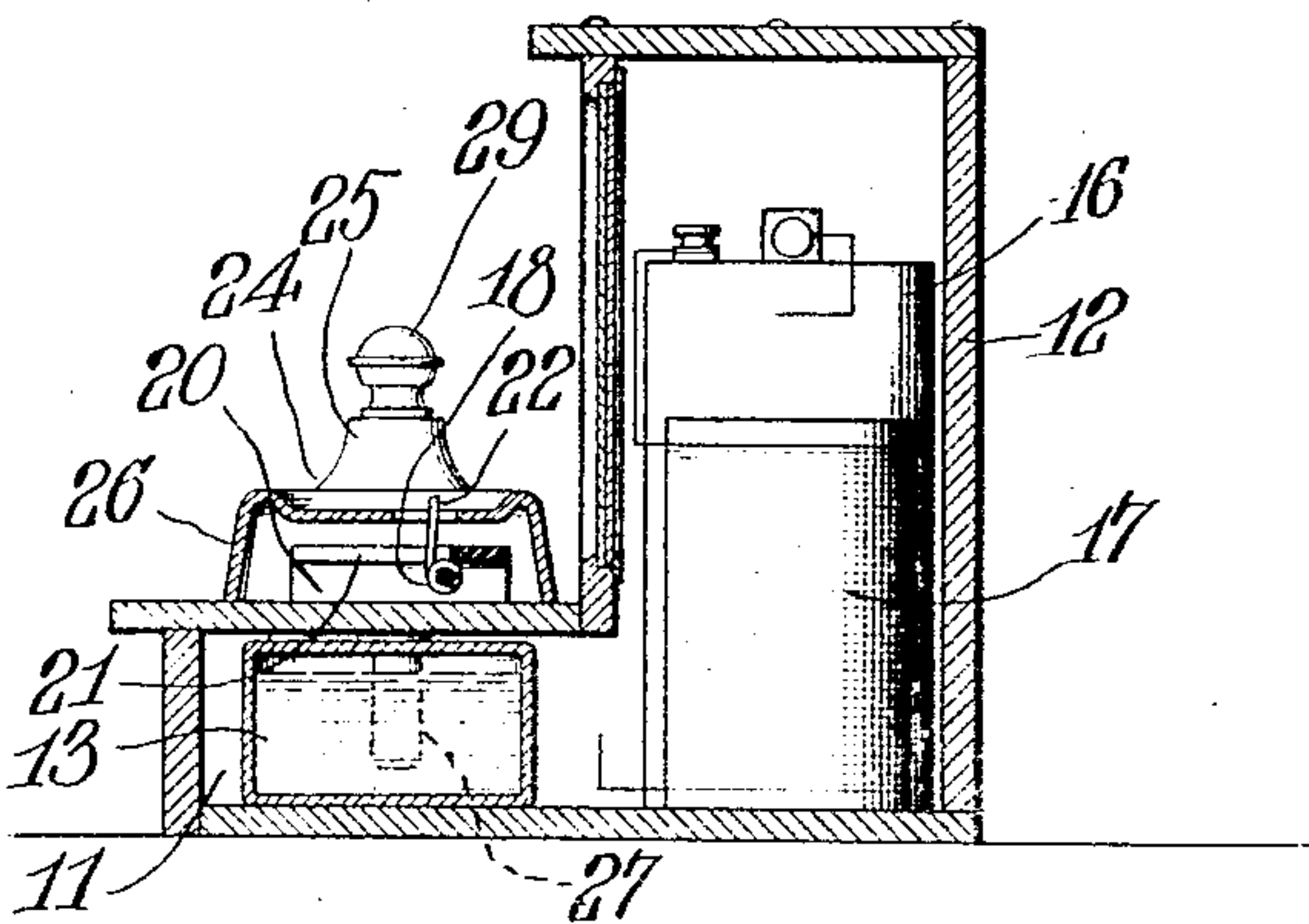
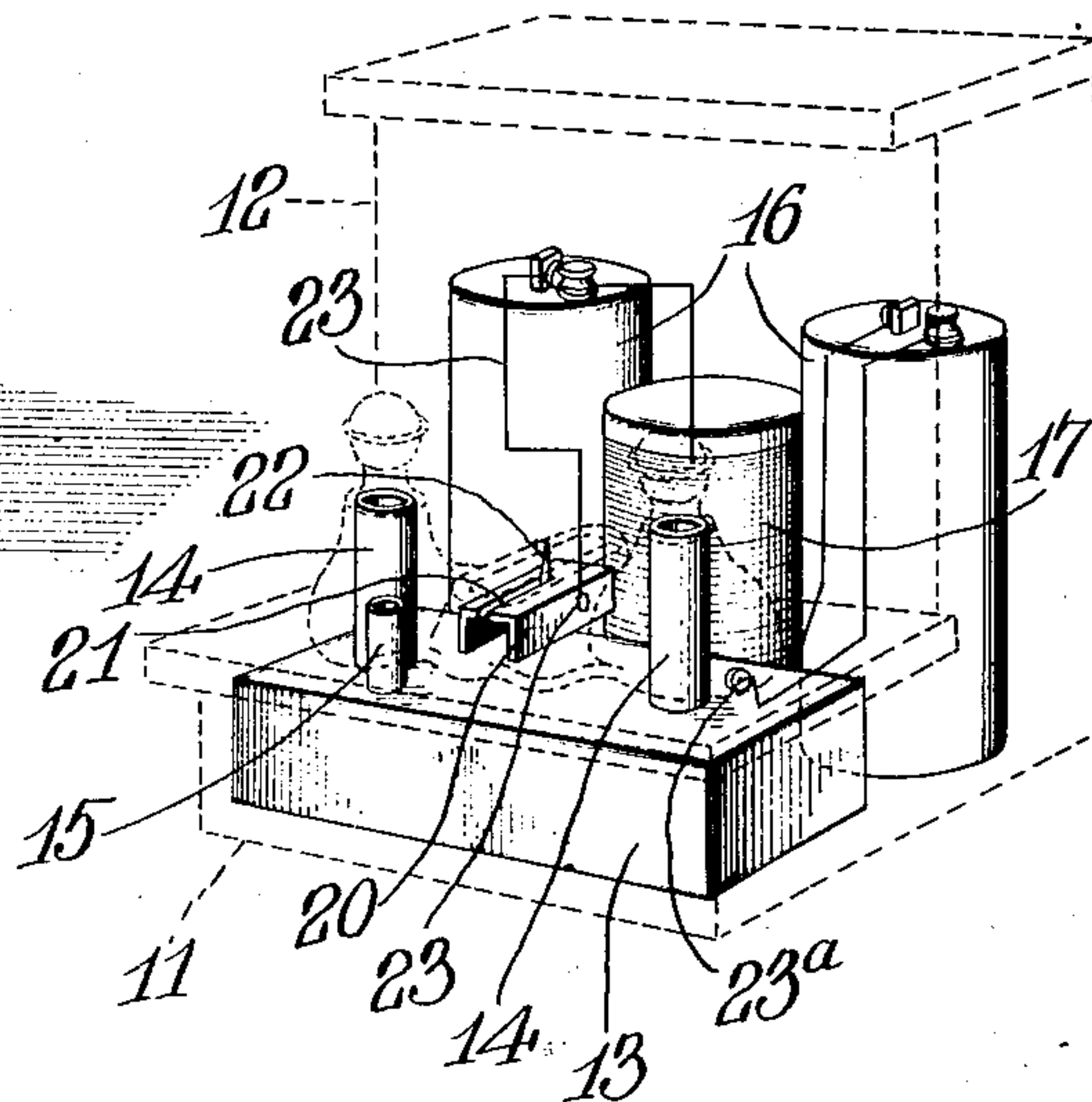


Fig. 3.

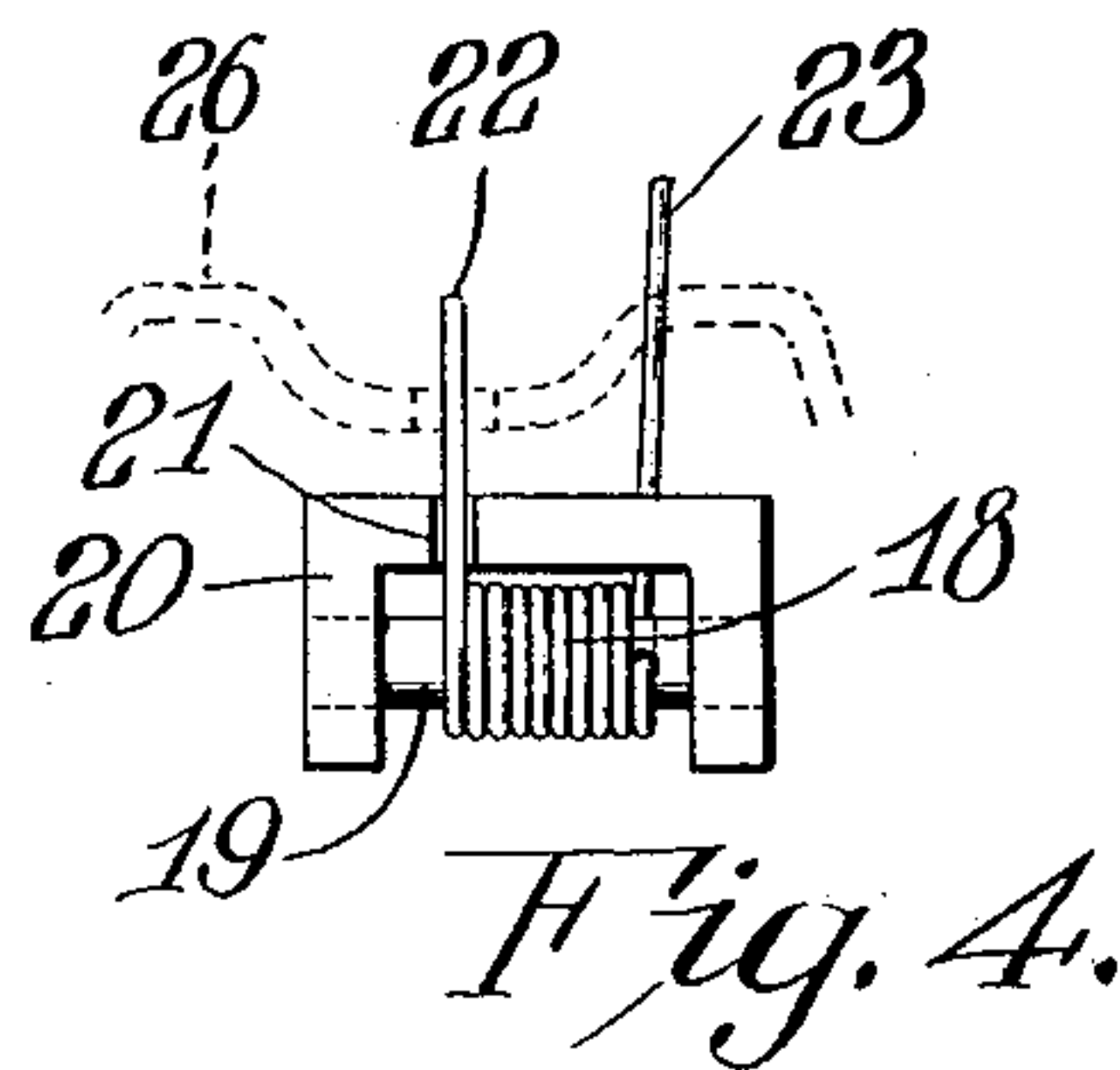


Fig. 4.

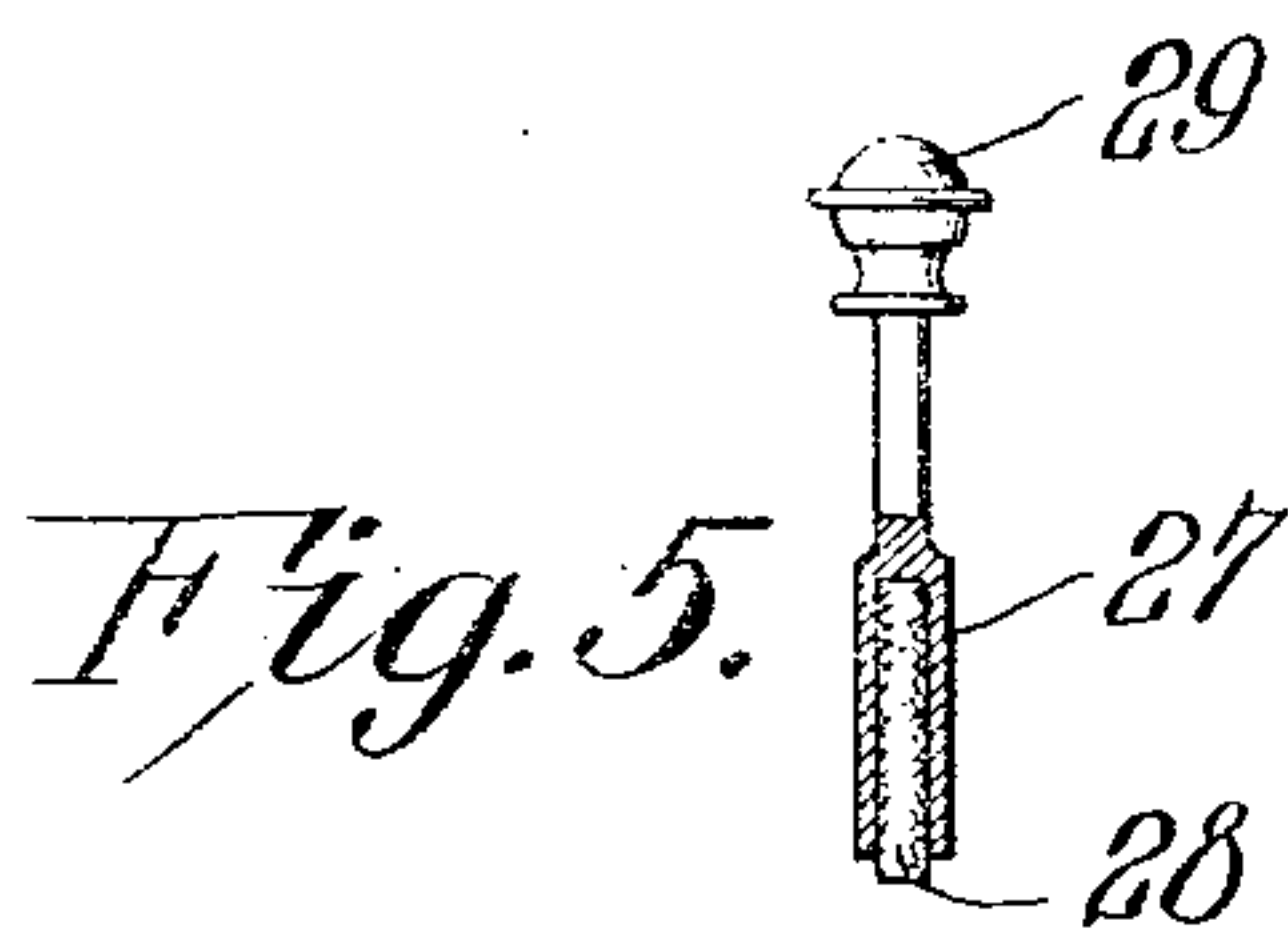


Fig. 5.

Witnesses

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By

UNITED STATES PATENT OFFICE.

AUGUSTUS C. GRUHLKE, OF WATERLOO, INDIANA.

CIGAR-LIGHTER.

No. 925,171.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed April 23, 1908. Serial No. 428,756.

To all whom it may concern:

Be it known that I, AUGUSTUS C. GRUHLKE, citizen of the United States, residing at Waterloo, in the county of Dekalb and State of Indiana, have invented certain new and useful Improvements in Cigar-Lighters, of which the following is a specification.

This invention relates to certain new and useful improvements in cigar lighters and pertains more particularly to that class of such devices in which the ignition is obtained through the medium of an electric spark.

The invention has for its object the provision of improved means whereby a torch or the like may be conveniently saturated with an inflammable fluid, such as alcohol, and means whereby an electrical spark will be caused to ignite the said torch.

A further object is to provide a simple and improved form of sparking device.

The invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings—Figure 1 is a perspective view illustrating my improved cigar lighter. Fig. 2 is a similar view showing the internal arrangement, the casing being shown in dotted lines. Fig. 3 is a vertical sectional view. Fig. 4 is a detail view of the sparking device. Fig. 5 is a detail view illustrating a form of torch adapted for use with my cigar lighter.

Like characters of reference designate corresponding parts.

Referring to the drawings, 10 designates a casing of approximately L-shape provided with a horizontal compartment 11 and a vertical compartment 12. Located within compartment 11 is a receptacle or reservoir 13, adapted to contain an inflammable liquid and provided with spaced apart upright tubes 14 projecting through the top of said compartment. A filling opening 15 is also provided. The compartment 12 is arranged to receive a set of dry batteries 16, and a spark coil 17 in circuit therewith. The sparker proper comprises a wire 18 coiled about a retaining pin 19 which is set in a block 20 of insulating material. Said block is provided with a slot 21, and an extension 22 of wire 18 projects vertically through said slot. The other end of said wire is connected to one of the battery terminals 23. The block 20 rests upon the top of compartment 11, and I prefer to cover the same as well as

the tubes 14 with a suitable cap or cover 24, provided with conical chambers 25 to receive the tubes 14, and a central box-like chamber 26 inclosing the block 20 and spaced therefrom, the top wall of said chamber being provided with a slotted depression through which the end of extension 22 protrudes. The battery terminals 23^a is connected to said cap or cover 24. The torches employed each comprise a metal tube 27 containing a wick 28 of any suitable material. These torches are normally suspended in tubes 14, the knobs 29 serving as closures for said tubes.

In practice when it is desired to secure a light for a cigar or the like, one of the torches is withdrawn from its tube 14 and drawn through the depression in cap or cover 24. This action deflects the extension 22 and closes the circuit to the batteries. As the torch is drawn along said extension it will be finally released, whereupon it will spring back to its normal position, thus breaking the circuit suddenly and producing a spark that will ignite the volatile liquid with which the torch is saturated. In this manner a suitable flame is secured for the purposes desired.

It is obvious that if necessary wicks may be employed to bring the liquid up to the end of the torch.

Claims:—

1. A cigar lighter comprising a U-shaped insulating block having a slot therein, a pin mounted in the sides of said block, a wire coiled about said block and having an extension adapted to work in said slot and forming a sparking terminal, and a cap provided with a box-like chamber to receive said block, said chamber being slotted to receive the extension of said wire and forming the second sparking terminal.

2. In a cigar lighter, the combination with a reservoir provided with upright tubes, of a source of electrical energy, a sparking coil, a coiled wire having an extension forming a sparking terminal, and a cap provided with a slot through which said terminal projects, and also provided with chambers to receive said tubes, said cap forming the second sparking terminal.

3. In a cigar lighter, the combination with a reservoir, provided with upright tubes, of a source of electrical energy, a sparking coil, an insulating block, a coiled wire carried by said block and having an

extension forming a sparking terminal, and
a cap forming the second sparking terminal
and provided with a central chamber to re-
ceive said block, said chamber having a slot
5 through which said terminal projects, said
cap being also provided with end chambers
to receive said tubes.

In testimony whereof I affix my signature,
in presence of two witnesses.

AUGUSTUS C. GRUHLKE.

Witnesses:

EDW. F. DUBEIRL,
DOLLY HOUCK.