Nov. 18, 1924.

G. J. VOGEL ET AL ELECTRIC CIGAR LIGHTER

Filed Oct. 13. 1923

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UNITED STATES PATENT OFFICE.

GEORGE J. VOGEL AND DAVID DAMBERG, OF SEATTLE, WASHINGTON.

ELECTRIC CIGAR LIGHTER.

Application filed October 13, 1923. Serial No. 668,410.

To all whom it may concern:

minals of this coil lead through conductors

Be it known that GEORGE J. VOGEL and 9 and 10, which extend longitudinally of and DAVID DAMBERG, citizens of the United within the lighter proper, the conductor 9 **5** King and State of Washington, have in-points 11, which extend through one wall vented certain new and useful Improvements of the lighter proper as shown. The igin Electric Cigar Lighters, of which the niting end of the lighter proper is provided following is a specification.

10 in electric cigar lighters, designed particu- pivoted at 13 on the lighter proper to permit larly for use in connection with motor ve- the shield to be moved from a position away hicles, and constructed to permit the lighter from the igniter end when desired. The to be withdrawn from its normal position adjacent the dash or other support to a 15 position convenient for use, the lighter being automatically returned to its normal position upon its release by the user.

The invention also provides for an auto-20 that when the lighter is released, the current provided with binding posts 16, to which will be interrupted.

The lighter is also particularly formed to and 18. These conductors beyond the provide an incandescent terminal, which is lighter proper are wound as a single con-25 as cigars or the like. The invention is illustrated in the accompanying drawings, in which: **30** proved lighter to a fixed part of a vehicle, to be secured on the support 4, the housing the parts being shown in normal positions. through the reel casing immediately above The housing is provided with binding posts the reel. **35** Fig. 3 is an enlarged vertical section show- adapted to engage respectively with the ing the circuiting contacts between the contact rings 22, 23, and the binding posts source of current supply and the reel. circuit.

States, residing at Seattle, in the county of being interrupted to provide spaced contact 00 with a shield 12 adapted to overlie and sub-This invention relates to an improvement stantially cover said end, this shield being 65 shield extends rearwardly of the pivot in an inclined section 14, having a contact strip 70 15, which when the shield is elevated to expose the igniter end bridges the contact points 11 and completes the circuit through the conductor 9.

matic control of the energizing current, so The inner end of the lighter proper is 75 are connected the terminals of conductors 17 readily adapted for lighting pipes, as well ductor 20, and this conductor is coiled about 80 a reel 21 with the terminals of the respective wires leading to circular strips 22, 23, on one wall 24 of the reel. The reel is Fig. 1 is a view in section partly in eleva- mounted upon a shaft 25 supported in a tion, illustrating the application of the im- housing 26 mounted upon a plate 27 adapted 85 26 having a removable cover 28 for con-Fig. 2 is a horizontal section taken venient access to the interior of the housing. 29, 30, having sliding contact pieces 31, 32, 90 29, 30, are connected by conductors 33, 34, Fig. 4 is a diagrammatic view of the with a source of energy 35. Thus the electrical circuit to the lighter is complete in 95 any position of the reel, being broken only

The improved lighter comprises an insu-40 lating body 1, having an enlarged forward at the spaced contact points 11. The wall 36 of the reel opposite the wall 24 is proend 2 providing an intervening shoulder 3. The fixture as 4 with which the lighter co-vided with a pin 37 to which is secured one operates when in normal position, as for end of a coil spring 38, the opposite end 100 45 example the dash board of the vehicle, is being secured to a pin 39 projecting from formed with an opening 5 to slidably re- the casing 26. The shaft 25 is provided at ceive the reduced portion 1 of the lighter one end with a pinion 40 adapted to engage proper, the support at the inner end of the a rack 41 forming an extension of piston rod opening being provided with rollers or mov- 42 connected to a piston 43 of a dash pot 105 able guides 6. The enlarged portion 2 of cylinder 44 secured to the plate 27. - 50 the lighter proper is formed with what may Obviously, as the lighter is withdrawn be termed a lighting terminal including a from its normal position, the conductor 20 rounded knob-like projection 7, over which is drawn from the reel, tensioning the is coiled a wire 8 forming a choke coil spring 38, and also raising the piston of the 110 55 adapted to become more or less incandescent dash pot. As the user removes the shield 12, in the passage of the current. The ter- the current flows to the coil 8, and the latter

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is rendered incandescent for ignition purposes. Upon release of the lighter proper, the spring 38 acts through the coil and conductor 20 to withdraw the igniter from the ing wires for said lighter, a spring operated • point of use to its normal position in the drum about which said wires are coiled, and abrasion of the conductors during this move- of the drum, said lighter having a shoulder ment. The dash pot serves to retard the re- to limit its movement in the opening. turn movement of the lighter and thus its 4. In combination with a support formed 10 action is a slow even one until it is finally with an opening, a lighter positioned in said

3. In combination with a support formed 30 with an opening, a lighter positioned in said opening and removable therefrom, circuitsupport 4, the roller 6 serving to prevent a dash pot for retarding return movement 35 positioned properly in the support, the opening and removable therefrom, circuiting 40 shoulder 3 serving to permit sufficient pro- wires for said lighter, a spring operated jection of the lighter to permit convenient drum about which said wires are coiled, and grasping of the same when the lighter is a dash pot for retarding return movement of the drum, and rollers carried by the support to form guides for the circuiting 45 1. A cigar lighter having a coil terminal wires in the movement of the lighter. 5. A cigar lighter having a coil terminal cuit leading to the coil, a shield for the for lighting purposes, an interrupted circuit the interrupted circuit when the shield is means carried by the coil to close the inter-50 rupted circuit when the shield is moved away 2. In combination with a support formed from the coil, the coil being of knob-shape In testimony whereof we affix our sig-

15 to be used.

Claims:

for lighting purposes, an interrupted cir-20 coil, and means carried by the coil to close leading to the coil, a shield for the coil, and moved away from the coil.

with an opening, a lighter positioned in said to permit its use in lighting a pipe. 25 opening and removable therefrom, circuiting wires for said lighter, a spring operated natures. drum about which said wires are coiled, and a dash pot for retarding return movement of the drum.

GEORGE J. VOGEL. DAVID DAMBERG.

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