W. S. SEEDERLY.

ELECTRIC HEATER FOR CARBURETERS.

APPLICATION FILED FEB. 21, 1916.

1,185,010. Patented May 30, 1916.

Fig. 1.

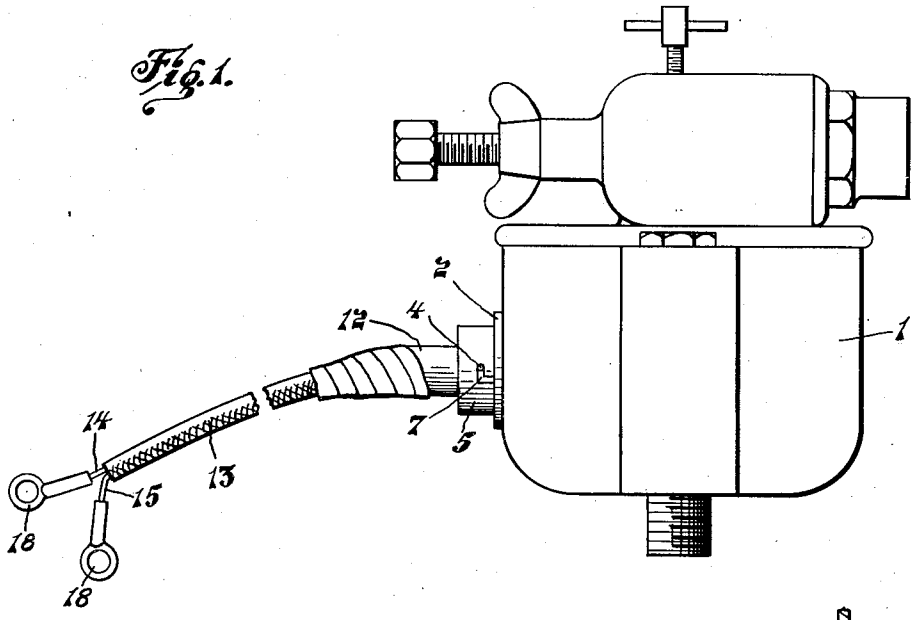
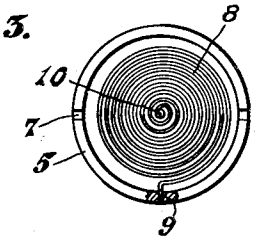


Fig. 3.



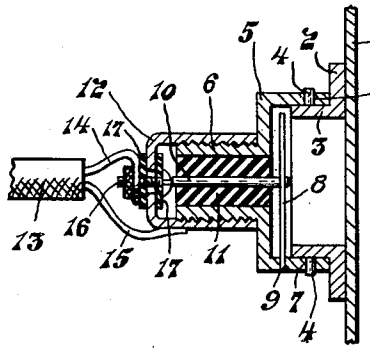
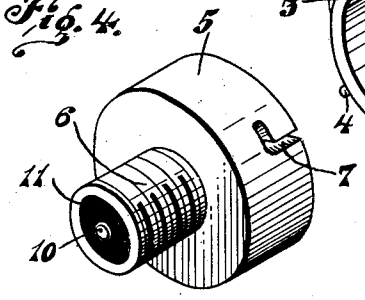


Fig. 2.

Fig. 4.



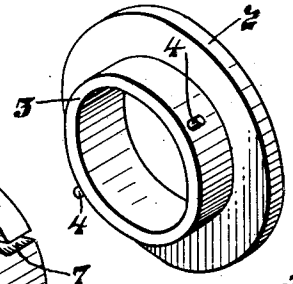


Fig. 5.

Witness

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UNITED STATES PATENT OFFICE.

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ELECTRIC HEATER FOR CARBURETERS.

1,185,010. Specification of Letters Patent. Patented May 30, 1916.

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To all whom it may concern:

Be it known that I, WALTER S. SEEDERLY, a citizen of the United States, residing at Columbiana, in the county of Columbiana and State of Ohio, have invented a new and useful Electric Heater for Carbureters, of which the following is a specification.

My invention relates to improvements in electric heaters for carbureters and has more especial reference to an electric heating device adapted to be attached to a carbureter for the purpose of heating the gasolene in starting the engine, this device being more especially intended for quickly starting an engine which has become cold.

The object of the present invention is to provide an electric heater upon a carbureter.

A further object is to provide an electric heating unit, which may be detachably secured to a carbureter.

With these objects in view the invention consists in the novel construction and arrangement of parts, hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claim, it being understood that various changes in the form, proportions, size and minor details of construction may be made within the scope of the appended claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings: Figure 1 is an elevation of a carbureter showing my electric heater attached thereto. Fig. 2 is a longitudinal sectional view through the heater. Fig. 3 is an internal view of the heater. Fig. 4 is a detail perspective view of the heater. Fig. 5 is a detail perspective view of the attaching plate.

Similar numerals of reference indicate corresponding parts throughout the several figures of the drawing.

Referring more especially to the construction illustrated in the accompanying drawings, the numeral 1 indicates generally a carbureter of any well known form to which is secured by means of soldering, spot welding or the like an attaching plate 2, said plate being provided with a concentric annular flange 3 upon its outer face, diametrically oppositely disposed studs 4 being located upon said flange.

The electric heater comprises the cylindrical receptacle 5 provided with the screw threaded neck portion 6, said receptacle being provided upon diametrically opposite sides with bayonet slots 7 adapted to be engaged by the studs 4 upon the attaching plate. Located within the receptacle 5 is a resistance unit preferably in the form of a spiral 8 as shown, one extremity of said spiral being connected at 9 to the wall of the receptacle 5, the other extremity thereof being connected to a post 10, said post being located within the screw threaded neck 6 and insulated therefrom as shown at 11.

An internally screw threaded cap 12 is placed upon the screw threaded neck 6 of the receptacle, said cap being connected to a flexible cord 13 containing the wires 14 and 15, the wire 14 being connected to the bolt 16, insulation washers 17 insulating said wire from the cap 12. The head of the bolt 16 is adapted to contact with the extremity of the post 10 and the wire 15 is soldered or spot welded or otherwise connected to the cap 12. Thus when the cap is attached as shown in Fig. 2 the current will pass from the wire 14 through the bolt 16 and post 10 to the spiral 8 and back through 9 to the receptacle 5 and cap 12 and thence to the wire 15. The wires 14 and 15 are each provided at their extremities with eyes 18 adapted to be connected to the terminals of a battery.

By constructing the heater as shown the receptacle 5 may be easily and readily detached from the carbureter when it is desired to repair the same or replace the resistance unit therein. A suitable switch may be provided to break the circuit to the heater after the engine is started.

Although the drawings and above specification disclose the best mode in which I have contemplated embodying my invention I desire to be not limited to the details of such disclosure, for in the further practical application of my invention, many changes in form and construction may be made, as circumstances require or experience suggests, without departing from the spirit of the invention within the scope of the appended claim.

I claim:

The combination of an attaching plate adapted to be secured to a carbureter in any desired position, an annular flange pro-

vided upon said attaching plate, a receptacle detachably secured to said annular flange, a resistance unit mounted within said receptacle, a post insulated from said receptacle and connecting said resistance unit with one line of an electric circuit, said resistance unit being located in contact with one wall of said receptacle, said receptacle connected to the other line of the electric circuit.

In testimony that I claim the above, I have hereunto subscribed my name.

WALTER S. SEEDERLY.