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E. B. WILCOX

SIGNAL FOR CHOKERS AND THE LIKE

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Fig. 1.

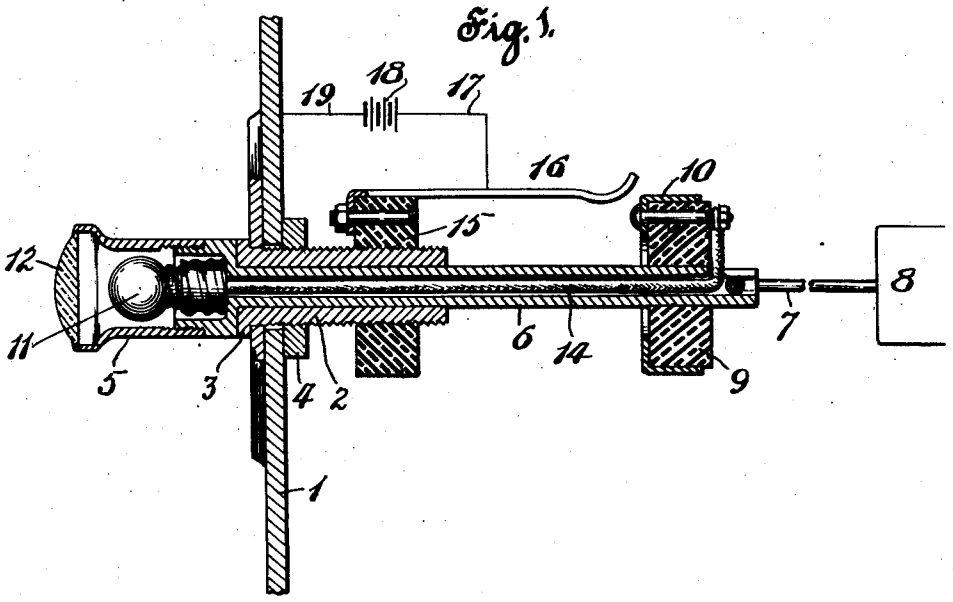
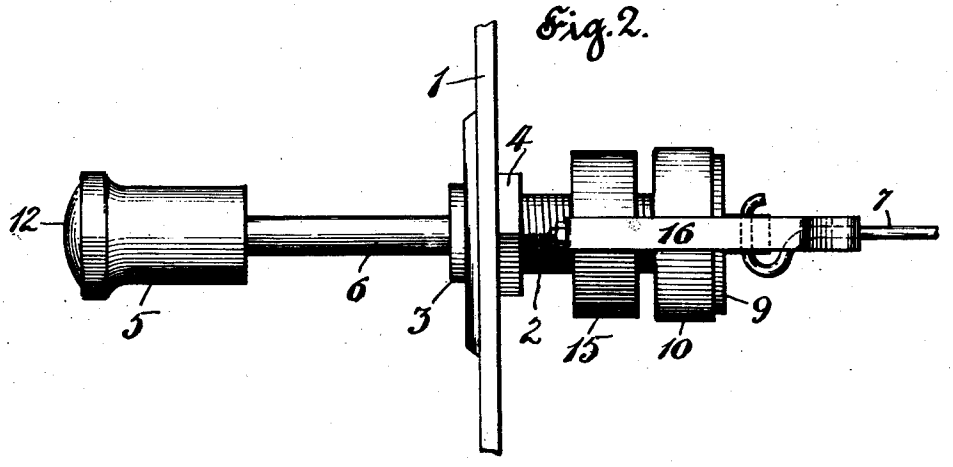


Fig. 2.



INVENTOR
Edson B. Wilcox
BY
Mitchell & Beebert
ATTORNEYS.

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EDSON B. WILCOX, OF MERIDEN, CONNECTICUT.

SIGNAL FOR CHOKERS AND THE LIKE.

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My invention relates to a new and useful warning signal especially useful when employed with a device known as a "choker", the function of which is to temporarily choke the air admission port of a gasoline carbureter so that a heavily charged gas mixture will be produced at the outset for starting a cold engine. Practically all carbureters are equipped with such choking devices, the handle operating portion being usually mounted on an instrument board within sight and easy access of the operator or driver. Just as soon as the engine is running properly, the choker should be thrown off so as to permit the carbureter to operate normally, otherwise an abnormal amount of gasoline will be drawn into the engine which will be only partially consumed, and which will condense on the walls of the cylinders and flow down into the crank case cutting the lubrication on its way, and improperly thinning the oil supply in the base. It is a matter of common occurrence for an operator to forget to move his choker handle to the "off" position after the engine is running properly, with the result that frequently engines are run for long distances before the error is detected and corrected.

By my invention I provide a signal which warns the operator as long as the choker remains on, which signal is so conspicuous that it cannot be overlooked, with the result that the operator will be constantly reminded to promptly move the choker handle to the "off" position and thereby avoid diluting the engine oil. Another effect of leaving the choker "on" for an improper period is that it causes a rapid sooting up of the piston heads, cylinder walls, and spark plugs, which decreases the efficiency of the engine. Anything that will prompt the operator to use the choker for as short a period as may be required obviously serves to increase the efficiency and life of the motor as well as conserve gasoline.

In the accompanying drawing—

Fig. 1 is a vertical longitudinal section showing my invention as it will appear in use in one position;

Fig. 2 is a plan view of the parts shown in Fig. 1, showing certain parts in a different position.

In the drawing, 1 represents a part of an instrument board of a vehicle, such as an automobile or boat, which board may be made of metal. 2 is a bushing mounted on the board 1, the latter being usually perforated to permit the bushings to be inserted. 3 is a flange on the outer end of the bushing arranged to bear against the face of the board 1. 4 is a nut which screws onto the bushing 2 and which operates to clamp the bushing tightly to the board 1. 5 is a handle by which the choker may be operated. In the particular form shown the handle is of the "push and pull" type. 6 is a hollow stem which carries the handle 5 at its outer end and which projects through the bushing 2. The rear end of this stem is provided with a connection 7 which may lead to a choker conventionally indicated at 8, such devices being well understood. 9 is a head on the stem 6 toward the rear end thereof. This head is preferably made of insulating material so that a contact ring 10 may be secured to the periphery thereof. 11 is a signal which in this instance is in the form of a lamp mounted in an ordinary lamp socket in the head 9. 12 is a glass cover or "bulls eye" at the outer end of the handle through which the light from the lamp may shine when the current is on. The lamp bulb, or glass cover, is preferably made in some striking color, such as red, to more readily attract attention. 14 is an electrical connection leading from one terminal of the lamp through the stem 6 and head 9, to the contact ring 10, with which it may be connected in a suitable way. In this instance, this terminal is designed to coact with the usual center terminal of the lamp. 15 is an insulating block mounted on the bushing 2. 16 is a blade spring contact carried by the insulating block 15 and standing in the path of movement of the contact ring 10 so as to be in electrical contact therewith, when the choker handle is pulled out to throw the choker "on". It will be noted that when the choker handle is pushed in and the choker is "off", the contact ring 10 and the contact 16 will be electrically disconnected, but so long as the choker handle is out to any appreciable degree, electrical connection between these parts is made and the signal will be "on". 17 is a suitable electrical connection leading from the contact 16 to a battery 18. 19 is a connection from the battery 18 to the board 1, which is in electrical contact with the other terminal of the lamp 11 so that when the ring 10 and blade 16 are electrically connected, current will flow through the lamp filament so

as to cause a glow that will warn the operator that the "choker" is on and requires his attention.

As indicated at the outset, I have shown my invention in one preferred and successful form only, and I wish it understood that I well appreciate that a mechanic skilled in this art may make many modifications and changes without avoiding the spirit of the invention or the scope of the following claims.

I claim:

1. A warning signal for a choker operating device for a gasoline carbureter comprising, a movable rod to operate a choker, a support therefor, a handle for said rod, an electric signal in front of said support, a signal circuit controller at the rear of said support, and operable by the movement of said rod to cause the signal to go "on" when said rod is in one position, and to cause said signal to go "off" when in another position.

2. A warning signal for a choker operating device for gasoline carbureters, comprising a bearing, a hollow rod extending therethrough and slidable therein, a handle on the other portion of said rod, an electric signal lamp carried thereby, an electrical contact on the inner portion of said rod and insulated therefrom, an electrical connection between said signal lamp and said contact, said connection extending through said hollow rod and being insulated therefrom, and another contact for cooperation with the first mentioned contact to put said signal in and out of circuit according to the position of said handle.

EDSON B. WILCOX.