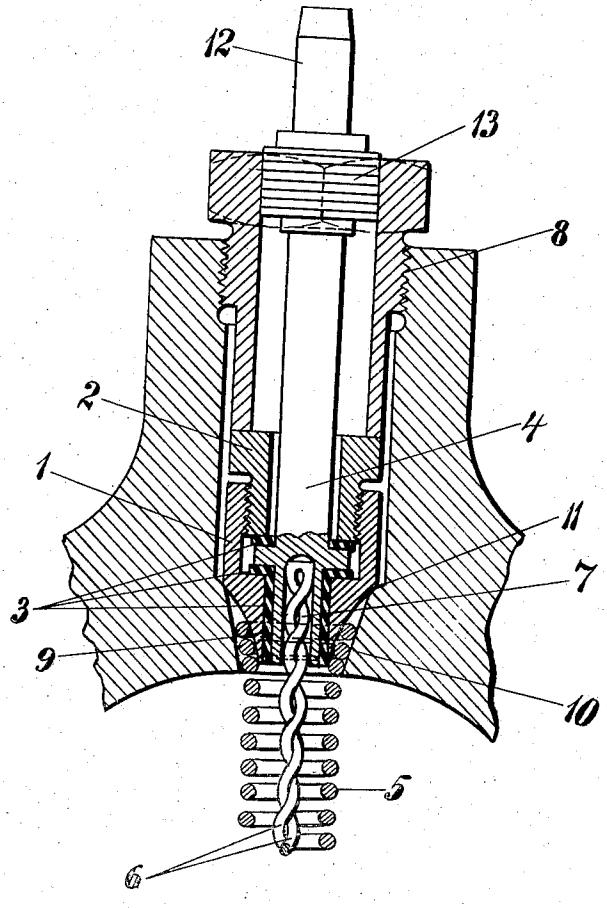
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GLOW PLUG

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GLOW PLUG

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1 Claim. (Cl. 123—145)

This invention relates to internal combustion engines and more particularly to devices known as glow plugs for assisting the combustion of fuel charges in internal combustion engines.

Glow plugs usually include a body which is screwed into the cylinder wall, an electrode and a projecting coiled resistance wire secured at one end to the electrode and at the other end to the body.

The object of this invention is to increase the strength of the glow plug and to form them in such a manner, that the wire coil can be readily inserted.

These and other objects of the invention will appear from the following description taken in connection with the drawing which forms a part of the specification and which shows a medial sectional view of a glow plug incorporated with the invention as it appears applied to the top horizontal wall of an engine cylinder.

Referring to the drawing by characters of reference, 1 represents the glow plug body, 2 a sleeve, 3 insulating means, 4 the insulated bolt or electrode and 5, 6 the resistance wire. The sleeve 2 keeps the insulation 3 in its place and by means of the screw thread 8 the plug is screwed into the wall of the engine cylinder. The resistance wire consists of the coiled part 5, which is cylindrical in form except the upper portion is conical, and the central part of two or more twisted wires. The base 9 of the plug body is conical and the bore hole 10 in the cylinder is also conical. The glow plug is placed in position in the following manner: The twisted part of the resistance wire is inserted into the central hole 7 and the conical portion of the coil 5 is forced up against the conical end 9 of the plug body. Then the plug is screwed into the bore hole 10 by means of the thread 8, thus causing the conical portion of the coil 5 to be interposed between the conical end 9 and bore hole 10. The tightening takes place by 11. 13 is an additional insulation. The extension 12 of the insulated bolt 4 is supplied for connection of a terminal wire.

Having thus described the invention what is claimed as new and desired to be secured by Letters Patent is:

A glow plug for an internal combustion engine comprising a body with a conical base, an electrode insulated therefrom and carried by the body and a resistance wire coiled exteriorly of the body, said wire having a central twisted part, which is inserted into a central hole in the electrode, the end of the coil being conical whereby, when the glow plug is screwed into the cylinder wall of said internal combustion engine, the conical end of said wire is interposed between the said conical end of the plug body and a conical opening provided in the cylinder wall.

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