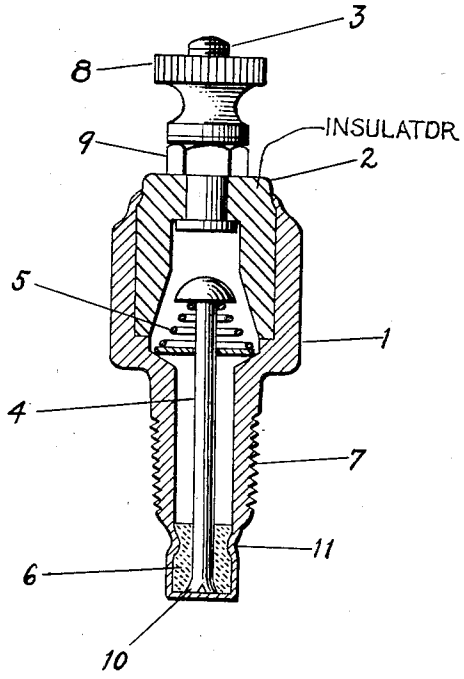
June 8, 1948. C. D. SPRACHER 2,442,830

TEMPERATURE SWITCH

Filed March 1, 1946



INVENTOR.

BY

Patented June 8, 1948

2,442,830

UNITED STATES PATENT OFFICE

2,442,830

TEMPERATURE SWITCH

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Application March 1, 1946, Serial No. 651,331

1 Claim. (Cl. 200—142)

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My invention relates to temperature switches for stopping internal combustion engines although it might also be used in other places.

The general object of my invention is to provide a means of stopping the engine in case anything goes wrong which causes it to over-heat.

Other objects, advantages, and features of invention may appear in the accompanying drawing, detailed description and the appended claim.

The drawing is a detailed sectional view of the temperature switch.

My switch comprises, namely, a body 1, an insulator 2, formed of suitable insulating material such as ceramics, contact screw 3, lower contact piece 4, spring 5, and operating element 6.

In operation, the threaded portion 7 of switch is screwed into the water-jacket of engine so that end of switch containing element 6 is surrounded by the water.

In case we'll say the water pump or fan belt breaks which cause engine to overheat and the temperature of said water reaches the melting point of element 6. The element 6 then melts and releases lower contact piece 4, so spring 5 can raise piece 4 to ground contact screw 3, which is insulated by insulator 2.

To reset switch simply remove nuts 8 and 9, then heat lower end of switch to melt element 6 and push screw 3 down (which will in turn force contact piece 4 down) and hold it down until element 6 has cooled. Then replace nuts 8 and 9 and switch is ready for use again.

The lower end of contact piece 4 is flared out as shown at 10, so that it cannot slip through element 6 until element has melted.

The lower portion of switch which surrounds element 6 has an indentation 11, so that element 6 cannot slip up until it has melted.

The flared out end of piece 4 and the indentation 11 of this switch are the main secrets of its successful operation.

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Without those features the switch will not work successfully as it may ground screw 3 ten or twenty degrees before the melting point of element 6, due to expansion and contraction of surrounding metal of element 6 and contact piece 4.

Having described only a typical, preferred form of my invention, I do not wish to limit myself to the specific details set forth, but wish to reserve to myself any changes or variations that may appear to those skilled in the art or fall within the space of the following claim.

Having described my invention, I claim.

A temperature switch comprising a body formed as one piece, an insulator fixedly mounted in the body, a contact screw mounted in the insulator, and extending through said insulator, a contact pin, a fuseable metal in the lower part of said body said contact pin being imbedded in the fuseable material, said body being indented, the indentation extending into the fuseable material, a disk situated in the body and a spring resting on the disk, and pressing against the contact pin whereby said pin is urged into engagement with the contact screw.

CLIFFORD D. SPRACHER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,685,136	Montgomery	Sept. 25, 1928
2,029,097	Garner	Jan. 28, 1936

FOREIGN PATENTS

Number	Country	Date
18,018	Great Britain	1888
429,123	Germany	May 19, 1926