

Title (en)

Device sensitive both to temperature and pressure, especially for warning or safety use in sealed cooling systems.

Title (de)

Temperatur- und druckempfindliche Vorrichtung, insbesondere zur Anwendung bei der Warnung und der Sicherung in Kühlungskreisen.

Title (fr)

Dispositif sensible à la fois à la température et à la pression, applicable notamment à l'alerte ou à la sécurité dans les circuits de refroidissement scellés.

Publication

**EP 0217681 A1 19870408 (FR)**

Application

**EP 86401565 A 19860715**

Priority

FR 8511769 A 19850801

Abstract (en)

1. A device sensitive to both the temperature and the pressure of a liquid and applicable, in particular, to warning or safety in cooling circuits with liquid under pressure, particularly sealed cooling circuits for internal combustion engines, this device comprising two elements (1, 2) which are carried by one and the same hollow body (3) and the mutual coming closer together of which, caused by the reduction in the pressure and/or the increase in the temperature of the liquid, with the intervention of resilient means (18, 23), has the effect of closing an electrical alarm or safety circuit, the body (3) comprising a first portion (A) adapted to be immersed in the liquid and a second portion (30) adapted to be mounted outside this liquid, characterised in that the first portion (A) of the body (3) carries, on the one hand, an impervious deformable diaphragm (14) which isolates the second portion (30) of the body (3) from the liquid and which tends to be pushed towards this second portion (3) by the pressure of the liquid and against the action of first resilient means (23), and, on the other hand, at the liquid side, the casing (8) of a wax-type thermostat (7) the piston (2) of which constitutes one of the two above-mentioned elements and tends, under the effect of the increase in the temperature of the liquid and against the action of second resilient means (18), to move towards said diaphragm which carries the other (1) of the abovementioned elements (1, 2) at the opposite side to the liquid.

Abstract (fr)

Le dispositif comprend deux éléments (1,2) portés par un corps (3) et pouvant se rapprocher par diminution de la pression et/ou augmentation de la température pour fermer un circuit d'alerte ou de sécurité. Les éléments (1, 2) sont mobiles par rapport au corps (3) et sont sensibles, l'un à la diminution de pression sous l'action de premiers moyens élastiques et l'autre à l'augmentation de température à l'encontre de deuxièmes moyens élastiques indépendants des premiers.

IPC 1-7

**H01H 37/36**; **H01H 35/24**

IPC 8 full level

**H01H 35/24** (2006.01); **H01H 37/36** (2006.01)

CPC (source: EP)

**H01H 35/24** (2013.01); **H01H 37/36** (2013.01)

Citation (search report)

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