

Title (en)

DEVICE AND METHOD FOR DETECTING SNOW AND ICE

Title (de)

EINRICHTUNG UND VERFAHREN ZUR SCHNEE- UND EISMELDUNG

Title (fr)

DISPOSITIF ET PROCEDE DESTINE A LA DETECTION DE NEIGE ET DE GLACE

Publication

EP 0970457 B1 20020502 (DE)

Application

EP 98912386 A 19980225

Priority

- DE 19711371 A 19970319
- EP 9801055 W 19980225

Abstract (en)

[origin: US6276202B1] A device for detecting snow and ice which has a humidity sensor and an ambient temperature sensor. An evaluator switch is controlled according to a humidity sensor-measured variable, producing a control signal at set humidity values for defrosting a surface which is being monitored for snow and ice. The ambient temperature sensor activates the humidity sensor within a temperature range of between +2° C. and -12° C. The humidity sensor itself has a PTC (positive temperature coefficient) heating element. The current consumption of the heating element is used as a measure of humidity. Both the ambient temperature sensor and the humidity sensor are positioned at a mutual distance in a longitudinally extended sensor cartridge made of plastic. The temperature sensor is thermally decoupled from the PTC heating element. The PTC heating element is built into a metal sleeve in such a way that it is corrosion and humidity proof.

IPC 1-7

G08B 19/02

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP3454027A1; CN109470297A; DE102007039990A1; DE102011111959A1; US10837930B2

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