

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  
**G08B 19/02** (2006.01)

CPC (source: EP US)  
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Cited by  
EP3454027A1; CN109470297A; DE102007039990A1; DE102011111959A1; US10837930B2

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**US 6276202 B1 20010821**; AT E217110 T1 20020515; CA 2284258 A1 19980924; CA 2284258 C 20080408; DE 19711371 C1 19980827; DE 29717945 U1 19980820; DE 59803984 D1 20020606; DK 0970457 T3 20020826; EP 0970457 A1 20000112; EP 0970457 B1 20020502; WO 9841958 A1 19980924

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**US 38158799 A 19990920**; AT 98912386 T 19980225; CA 2284258 A 19980225; DE 19711371 A 19970319; DE 29717945 U 19971009; DE 59803984 T 19980225; DK 98912386 T 19980225; EP 9801055 W 19980225; EP 98912386 A 19980225