

Title (en)

CAPACITIVE SENSOR DEVICE AND INSTALLATIONS COMPRISING A SENSOR DEVICE OF THIS TYPE

Title (de)

KAPAZITIVE SENSORVORRICHTUNG UND INSTALLATIONEN MIT EINER SOLCHEN SENSORVORRICHTUNG

Title (fr)

DISPOSITIF DE DETECTION CAPACITIF ET INSTALLATIONS MUNIES D'UN TEL DISPOSITIF DE DETECTION

Publication

EP 1525661 A1 20050427 (DE)

Application

EP 03739931 A 20030721

Priority

- CH 0300487 W 20030721
- CH 13532002 A 20020802

Abstract (en)

[origin: WO2004013966A1] The invention relates to a sensor device comprising a first capacitor (C2), which has a first electrically conductive surface (12.1), a second electrically conductive surface (11) and a dielectric layer (13). Said device is provided with an electrically conductive absorption surface (12.2), which is connected in a conductive manner to the first electrically conductive surface (12.1) of the first capacitor (C2) and which optionally sits on an insulating layer, located on a first face of the absorption surface (12.2). An alternating current generator (G) couples an alternating current signal (s1(t)) into the absorption surface (12.2) and a sensor amplifier (A) amplifies an output signal (s2(t)), which can be picked up on the second electrically conductive surface (11) of the first capacitor (C2). The sensor device is designed in such a way that the absorption surface (12.2) forms an additional capacitor (C3), the actual capacitance of which can be altered, if an object (18) is displaced or present. The output signal (s2(t)) is subjected to a detectable attenuation by means of said actual capacitance.

IPC 1-7

H03K 17/955; **H03K 17/96**

IPC 8 full level

H03K 17/955 (2006.01); **H03K 17/96** (2006.01)

CPC (source: EP US)

H03K 17/955 (2013.01 - EP US); **H03K 17/962** (2013.01 - EP US)

Citation (search report)

See references of WO 2004013966A1

Citation (examination)

- FR 2036747 A1 19701231 - METAALFAB VENLO
- DE 19949985 A1 20010510 - SIE SENSORIK IND ELEKTRONIK GM [DE]
- DE 19815324 A1 19991021 - DICKFELD ERICH [DE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004013966 A1 20040212; CH 707868 B1 20141031; EP 1525661 A1 20050427; US 2006071673 A1 20060406; US 7015704 B1 20060321

DOCDB simple family (application)

CH 0300487 W 20030721; CH 13532002 A 20020802; EP 03739931 A 20030721; US 52308905 A 20050202