

Title (en)
SENSOR USING THE CAPACITIVE MEASURING PRINCIPLE

Title (de)
SENSOR MIT KAPAZITIVEM MESSPRINZIP

Title (fr)
CAPTEUR A PRINCIPE DE MESURE CAPACITIF

Publication
EP 1828524 B1 20101110 (DE)

Application
EP 05806946 A 20051124

Priority

- DE 2005002105 W 20051124
- DE 102004063108 A 20041222
- DE 102005013441 A 20050321

Abstract (en)
[origin: WO2006066524A1] The invention relates to a sensor which uses the capacitive measuring principle which is used to detect the proximity of a dielectric medium (5), preferably for detecting a human body part, which is used in an anti-pinching system. Said sensor comprises a capacitor (1) and an evaluation electronic system. The variation of the capacity of the capacitor (1), which is caused by the medium (5), can be measured. Said capacitor, which can establish a distinction between a human body part or a solid and water and/or humidity, is characterised in that the capacitor (1) can be operated in a successive manner by at least two different frequencies and/or at least two different pulse duty factors by using the different ratio of said elements in a variable electric field (4). The invention also relates to a corresponding method.

IPC 8 full level
E05F 15/00 (2006.01)

CPC (source: EP US)
E05F 15/46 (2015.01 - EP US)

Cited by
DE102012010228A1; DE102012010228B4; WO2013174513A2; DE102013001066A1; WO2014114669A2; US10197377B2; DE102013001066B4

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 2006066524 A1 20060629; CN 101137814 A 20080305; CN 101137814 B 20120201; DE 102005013441 A1 20060706;
DE 502005010530 D1 20101223; EP 1828524 A1 20070905; EP 1828524 B1 20101110; HK 1112681 A1 20080912; JP 2008524608 A 20080710;
JP 4901755 B2 20120321; US 2008007274 A1 20080110; US 7545154 B2 20090609

DOCDB simple family (application)
DE 2005002105 W 20051124; CN 200580048230 A 20051124; DE 102005013441 A 20050321; DE 502005010530 T 20051124;
EP 05806946 A 20051124; HK 08108214 A 20080724; JP 2007547155 A 20051124; US 76561207 A 20070620