

Title (en)
ANTI-PINCH SENSOR AND EVALUATION CIRCUIT

Title (de)
EINKLEMMSENSOR SOWIE AUSWERTESCHALTUNG

Title (fr)
CAPTEUR ANTI-PINCEMENT ET CIRCUIT D'ÉVALUATION

Publication
EP 2044690 A2 20090408 (DE)

Application
EP 07785802 A 20070602

Priority

- EP 2007004909 W 20070602
- DE 202006010813 U 20060713

Abstract (en)
[origin: WO2008006424A2] The invention relates to an anti-pinch sensor (1,1',1''), especially for detecting an obstacle in the path of a regulating element of a motor vehicle, said sensor comprising a sensor body (2), a first measuring electrode (4) which is arranged in the sensor body (2) and is used to produce a first outer electrical field (12) in relation to a counter-electrode (9), and an electrically separated second measuring electrode (6) which is arranged adjacently to the first measuring electrode (4) in the sensor body (2) and is used to produce a second outer electrical field (14) in relation to the counter electrode (9). The measuring electrodes (4, 6) are embodied in such a way that the first outer electrical field (12) has a larger range than the second outer electrical field (14). The invention also relates to an evaluation circuit suitable for evaluating an anti-pinch sensor (1,1',1''). The detection reliability of such a clamping sensor (1,1',1'') is not affected by dirt or water (10) on the surface thereof.

IPC 8 full level
H03K 17/955 (2006.01)

CPC (source: EP US)
B60N 2/0244 (2013.01 - EP US); **E05F 15/46** (2013.01 - EP US); **H03K 17/955** (2013.01 - EP US); **B60N 2210/12** (2023.08 - EP US); **B60N 2230/10** (2023.08 - EP US); **B60N 2230/30** (2023.08 - EP US); **E05Y 2400/54** (2013.01 - EP US); **E05Y 2800/40** (2013.01 - EP US); **E05Y 2900/538** (2013.01 - EP US); **H03K 2217/94031** (2013.01 - EP US); **H03K 2217/960745** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
DE 202006010813 U1 20071122; EP 2044690 A2 20090408; US 2009146668 A1 20090611; WO 2008006424 A2 20080117; WO 2008006424 A3 20080410

DOCDB simple family (application)
DE 202006010813 U 20060713; EP 07785802 A 20070602; EP 2007004909 W 20070602; US 35289409 A 20090113