

Title (en)  
METHOD FOR SENSING AND SENSOR

Title (de)  
ERFASSUNGSVERFAHREN UND SENSOR

Title (fr)  
METHODE DE DETECTION ET CAPTEUR

Publication  
**EP 2702415 A2 20140305 (DE)**

Application  
**EP 12722686 A 20120418**

Priority  
• AT 2252011 U 20110418  
• EP 2012057098 W 20120418

Abstract (en)  
[origin: WO2012143408A2] The invention relates to a method for the optomechanical path detection, for signal conversion and modification, and to transducers operating according to said method. For this purpose, a thin planar aperture element is used, which can be moved relative to the surroundings and relative to defined light or radiation zones. Using specially formed passages, said element allows more or less light or comparable electromagnetic radiation to pass depending on the position. The radiation component (the luminous flux) traveling through the passages forms a function that is dependent on the relative position or the relative angular position of the aperture element to the radiation zones. A photo or radiation detector can convert the impinging radiant flux into electrical signals. The measured variables can be paths or angles, accelerations, forces, electrically or magnetically induced movements or pressure. It is possible to measure electric or magnetic field intensities, electric voltages or currents that are converted into movements via active capacitive or inductive actuators.

IPC 8 full level  
**G01P 1/02** (2006.01); **G01D 5/34** (2006.01); **G01P 15/08** (2006.01); **G01P 15/093** (2006.01)

CPC (source: EP)  
**G01D 5/34** (2013.01); **G01K 5/70** (2013.01); **G01L 1/25** (2013.01); **G01P 15/093** (2013.01); **G01R 15/24** (2013.01); **G01R 33/0283** (2013.01); **G01R 33/032** (2013.01); **G01R 33/0385** (2013.01); **G01R 15/22** (2013.01)

Citation (search report)  
See references of WO 2012143408A2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2012143408 A2 20121026; WO 2012143408 A3 20121227; EP 2702415 A2 20140305; EP 2966451 A2 20160113; EP 2966451 A3 20160622**

DOCDB simple family (application)  
**EP 2012057098 W 20120418; EP 12722686 A 20120418; EP 15175929 A 20120418**