

Title (en)

Position detection device for a fluid cylinder

Title (de)

Positionsmessvorrichtung für einen fluidischen Zylinder

Title (fr)

Dispositif de détection de position pour un vérin fluide

Publication

EP 2149715 B1 20170607 (DE)

Application

EP 09008292 A 20090624

Priority

DE 202008010230 U 20080731

Abstract (en)

[origin: EP2149715A2] The device has an evaluation unit for determining the position of a piston rod (2) of a fluidic cylinder with respect to a cylinder barrel (1) of the fluidic cylinder based on intrinsic capacitance of a condenser formed from the cylinder barrel, the piston rod and a dielectric fluid operating as a dielectric. The piston rod is guided into the cylinder barrel in a longitudinally movable manner. The evaluation unit determines the capacitance over an oscillator circuit e.g. Martin-oscillator, with frequency evaluation that takes place in a digital manner.

IPC 8 full level

F15B 15/28 (2006.01); **G01M 99/00** (2011.01)

CPC (source: EP US)

F15B 15/2853 (2013.01 - EP US)

Cited by

EP2759715A1; FR3064322A1; CN111480060A; US11662265B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

DE 202008010230 U1 20091210; EP 2149715 A2 20100203; EP 2149715 A3 20121107; EP 2149715 B1 20170607; US 2010089144 A1 20100415; US 8117908 B2 20120221

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