

Title (en)

DEVICE FOR THE SENSOR-BASED DETECTION OF A PRESSURE DIFFERENCE IN A WORKING LINE for COMPRESSED AIR FLOW

Title (de)

VORRICHTUNG ZUR SENSORTECHNISCHEN ERMITTLUNG EINER DRUCKDIFFERENZ IN EINER DRUCKLUFTDURCHSTRÖMTEN ARBEITSLEITUNG

Title (fr)

DISPOSITIF DE DÉTERMINATION PAR CAPTEURS D'UNE DIFFÉRENCE DE PRESSION DANS UNE CONDUITE DE TRAVAIL PARCOURUE PAR DE L'AIR COMPRIMÉ

Publication

**EP 2493705 B1 20150715 (DE)**

Application

**EP 10795920 A 20101029**

Priority

- DE 102009051406 A 20091030
- EP 2010006629 W 20101029

Abstract (en)

[origin: WO2011050983A1] The invention relates to a device for the sensor-based detection of a pressure difference occurring between a first location (5a) and a second location (5b) spaced at a distance from the first location in the flow direction in the region of a throttle (4) introduced in a working line (2) through which compressed air flows, wherein the pressure is branched at the first location (5a) in the flow direction upstream of, and at the second location (5b) in the flow direction downstream of the throttle (4), in order to feed the pressure difference via the throttle (4) on both sides to a pressure balance (6; 6') connected in parallel thereto, which provides a binary aeration and deaeration signal, in case the pressure balance (6; 6') detects a significant positive or negative pressure difference via the throttle (4), by cooperating with an electric switch unit (10; 10') of a higher-level control unit (11).

IPC 8 full level

**H01H 35/24** (2006.01); **H01H 35/38** (2006.01); **H01H 35/34** (2006.01)

CPC (source: EP)

**H01H 35/247** (2013.01); **H01H 35/38** (2013.01); **F23N 2225/04** (2020.01); **H01H 35/34** (2013.01)

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

DOCDB simple family (publication)

**DE 102009051406 A1 20110505**; CN 102596598 A 20120718; CN 102596598 B 20150429; EP 2493705 A1 20120905; EP 2493705 B1 20150715; RU 2012122165 A 20131210; RU 2545177 C2 20150327; WO 2011050983 A1 20110505

DOCDB simple family (application)

**DE 102009051406 A 20091030**; CN 201080048953 A 20101029; EP 10795920 A 20101029; EP 2010006629 W 20101029; RU 2012122165 A 20101029