

Title (en)  
SENSOR UNIT FOR FLUIDS

Title (de)  
STAUDRUCKSONDE

Title (fr)  
UNITE DE DETECTION POUR FLUIDES

Publication  
**EP 1904813 A2 20080402 (DE)**

Application  
**EP 06775703 A 20060713**

Priority  
• DE 2006001219 W 20060713  
• DE 2005001258 W 20050714

Abstract (en)  
[origin: WO2007006297A2] The static pressure, the differential pressure, and the temperature must be known in order to be able to determine the mass flow rate, the volumetric flow under standard conditions, or the enthalpy flow of a fluid. According to the invention, said variables are detected by individual sensors located in an integrated unit, and the values detected by the individual sensors are then processed in an arithmetic unit that is also integrated. Said sensor unit outputs a value which also takes other parameters and/or physical constants into account to a control unit that is connected downstream, whereby some of the computing is advantageously done in the sensor unit while some load is relieved from the control unit.

IPC 8 full level  
**G01F 1/46** (2006.01); **G01F 15/14** (2006.01)

CPC (source: EP US)  
**G01F 1/363** (2013.01 - EP US); **G01F 1/46** (2013.01 - EP US); **G01F 1/50** (2013.01 - EP US); **G01P 5/14** (2013.01 - EP US);  
**G01P 5/16** (2013.01 - EP US)

Citation (search report)  
See references of WO 2007006297A2

Citation (examination)  
DE 69917594 T2 20050623 - US ENVIRONMENT [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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2007006297 A2 20070118; WO 2007006297 A3 20070802**; CN 101253394 A 20080827; CN 101253394 B 20120125;  
CN 101258385 A 20080903; CN 101258385 B 20130227; DE 112005003700 A5 20080619; DE 112006002455 A5 20080626;  
DE 202005016862 U1 20061116; EP 1904812 A1 20080402; EP 1904812 B1 20141203; EP 1904813 A2 20080402; HK 1120858 A1 20090409;  
HK 1123093 A1 20090605; US 2009211372 A1 20090827; US 2009217752 A1 20090903; US 7798017 B2 20100921; US 8065925 B2 20111129;  
WO 2007009409 A1 20070125

DOCDB simple family (application)  
**DE 2006001219 W 20060713**; CN 200580051063 A 20050714; CN 200680025666 A 20060713; DE 112005003700 T 20050714;  
DE 112006002455 T 20060713; DE 2005001258 W 20050714; DE 202005016862 U 20051026; EP 05782809 A 20050714;  
EP 06775703 A 20060713; HK 08112488 A 20081114; HK 09100039 A 20090102; US 99554705 A 20050714; US 99554806 A 20060713