

Title (en)  
DEVICE FOR MEASURING THE MASS OF A FLOWING MEDIUM

Title (de)  
VORRICHTUNG ZUR MESSUNG DER MASSE EINES STRÖMENDEN MEDIUMS

Title (fr)  
DISPOSITIF DE MESURE DE LA MASSE D'UNE SUBSTANCE EN ECOULEMENT

Publication  
**EP 1105699 A1 20010613 (DE)**

Application  
**EP 00945599 A 20000607**

Priority

- DE 0001850 W 20000607
- DE 19927818 A 19990618

Abstract (en)  
[origin: DE19927818A1] The conformance to a measuring characteristic curve of a device provided for measuring air mass is altered by pulsations, soiling and poor flow behavior. The measuring behavior of the device (1) is improved by coordinated measures for reducing these disturbance influences by virtue of the fact that the flow cross-section of an inlet channel (13) diminishes inside the inlet channel (13), in a direction of flow (25), up to a diverting channel (15), and a marginal surface (20) of a first partial piece (16) of the diverting channel (15) is slanted. At least one outer surface of a sensor support (9) forms a flush transition with a marginal surface (27) of the inlet channel that is located closer to an outlet channel (19).

IPC 1-7  
**G01F 1/684**

IPC 8 full level  
**F02D 35/00** (2006.01); **G01F 1/684** (2006.01); **G01F 1/72** (2006.01); **G01F 5/00** (2006.01)

CPC (source: EP KR US)  
**G01F 1/6842** (2013.01 - EP US); **G01F 5/00** (2013.01 - EP US); **G01G 5/02** (2013.01 - KR)

Citation (search report)  
See references of WO 0079222A1

Cited by  
US6820479B2; WO0208701A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**DE 19927818 A1 20010111**; **DE 19927818 C2 20031023**; CN 1185467 C 20050119; CN 1313948 A 20010919; EP 1105699 A1 20010613; JP 2003502682 A 20030121; JP 4700242 B2 20110615; KR 100740019 B1 20070718; KR 20010072699 A 20010731; US 6557408 B1 20030506; WO 0079222 A1 20001228

DOCDB simple family (application)  
**DE 19927818 A 19990618**; CN 00801135 A 20000607; DE 0001850 W 20000607; EP 00945599 A 20000607; JP 2001505535 A 20000607; KR 20017001999 A 20010216; US 76313401 A 20010511