

Title (en)  
VORTEX-FREQUENCY FLOWMETER

Title (de)  
WIRBELFREQUENZ-STRÖMUNGSMESSER

Title (fr)  
DEBITMETRE A FREQUENCE DE TOURBILLONS

Publication  
**EP 1379841 A1 20040114 (DE)**

Application  
**EP 02729873 A 20020417**

Priority  
• DE 0201428 W 20020417  
• DE 10118810 A 20010417

Abstract (en)  
[origin: WO02084225A1] The invention relates to an vortex-frequency flowmeter for determining the throughflow of a liquid or gaseous medium through a pipeline, with a resistance body mounted therein, comprising lateral surfaces, running essentially parallel to the flow direction, terminating with vortex separating edges in both flow directions. In at least one of the lateral surfaces a sensor is arranged, for recording the vortexes periodically separating from the separating edges. The aim of the invention is to develop said vortex-frequency flowmeter, such as to not only permit operation in both directions, but also permit a determination of the flow direction by simple means. Said aim is achieved, whereby the at least one sensor (16) is arranged off-centre between the separating edges (8, 8.1; 9, 9.1), seen from the flow direction (20, 21).

IPC 1-7  
**G01F 1/32**; **G01P 13/00**

IPC 8 full level  
**G01F 1/00** (2006.01); **G01F 1/32** (2006.01); **G01P 13/00** (2006.01)

CPC (source: EP KR US)  
**G01F 1/32** (2013.01 - KR); **G01F 1/3218** (2013.01 - EP US); **G01F 1/3259** (2022.01 - EP US); **G01P 13/0073** (2013.01 - EP US)

Citation (search report)  
See references of WO 02084225A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 02084225 A1 20021024**; CN 1503897 A 20040609; DE 10118810 A1 20021031; EP 1379841 A1 20040114; JP 2004522159 A 20040722; KR 20030090740 A 20031128; RU 2003133304 A 20050227; US 2004107778 A1 20040610

DOCDB simple family (application)  
**DE 0201428 W 20020417**; CN 02808463 A 20020417; DE 10118810 A 20010417; EP 02729873 A 20020417; JP 2002581932 A 20020417; KR 20037013467 A 20031014; RU 2003133304 A 20020417; US 47522603 A 20031016