

Title (en)
FLOW SENSOR

Title (de)
DURCHFLUSSSENSOR

Title (fr)
CAPTEUR D'ÉCOULEMENT

Publication
EP 2583066 A4 20150610 (EN)

Application
EP 10853563 A 20100621

Priority
FI 2010050524 W 20100621

Abstract (en)
[origin: WO2011161298A1] Velocity (UF1) and/or flow rate (Q) of a fluid flow (F1) is monitored by using a vibrating body (10), which is supported by at least one connecting element (20) so that the body (10) is free to vibrate in a direction (DZ), which is transverse to the fluid flow (F1). The method comprises - causing periodic vibration of the body (10) by the fluid flow (F1), - providing a sensor signal (SO), which depends on the frequency (fv) of vibration of said body (10) in said transverse direction (SZ), and - determining a velocity (UF1) and/or a flow rate (Q) of the fluid flow (F1) based on said sensor signal (SO), wherein the mass of the body (10) is smaller than 0.54 times the external volume of the body (10) multiplied by the density of the fluid (F1).

IPC 8 full level
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CPC (source: EP)
G01F 1/32 (2013.01); **G01F 1/3266** (2022.01); **G01F 1/3282** (2022.01); **G01F 1/3287** (2022.01)

Citation (search report)

- [X] US 3720104 A 19730313 - ZANKER K
- [A] US 4003251 A 19770118 - HERZL PETER J
- [A] US 3823610 A 19740716 - FUSSELL T
- See references of WO 2011161298A1

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 SE SI SK SM TR

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