

Title (en)
ULTRASONIC FLOWMETER

Title (de)
ULTRASCHALLDURCHFLUSSMESSER

Title (fr)
DEBITMETRE A ULTRASONS

Publication
EP 0706640 A1 19960417 (DE)

Application
EP 94930948 A 19941013

Priority
• DE 4335394 A 19931016
• EP 9403372 W 19941013

Abstract (en)
[origin: WO9511426A1] An ultrasonic flowmeter consists of at least two ultrasonic transducers located opposite to each other at an angle to the direction of flow of the medium, and of a measurement chamber. The object of the invention is to develop an ultrasonic flowmeter that allows even small volume flows to be accurately detected with a small measurement volume. For that purpose, the quality of each ultrasonic transducer equals 10 or less, each ultrasonic transducer has a dampening layer whose acoustic resistance is 5 to 120 times higher than that of the liquid to be measured, and the measurement chamber located between two opposite ultrasonic transducers is an acoustic resonance chamber whose quality lies between 20 and 200.

IPC 1-7
G01F 1/66

IPC 8 full level
G01F 1/66 (2006.01)

CPC (source: EP)
G01F 1/662 (2013.01); **G01F 1/667** (2013.01)

Citation (search report)
See references of WO 9511426A1

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

DOCDB simple family (publication)
DE 4335394 A1 19950420; DE 4335394 C2 19970213; CZ 92496 A3 19961016; EP 0706640 A1 19960417; HU 9600984 D0 19960628; HU T73914 A 19961028; SK 44796 A3 19960807; WO 9511426 A1 19950427

DOCDB simple family (application)
DE 4335394 A 19931016; CZ 92496 A 19941013; EP 9403372 W 19941013; EP 94930948 A 19941013; HU 9600984 A 19941013; SK 44796 A 19941013