

Title (en)

METHOD FOR MEASURING A HEAT QUANTITY WITH AN ULTRASONIC FLOW MEASURING DEVICE

Title (de)

VERFAHREN ZUR WÄRMEMENGENMESSUNG MIT EINEM ULTRASCHALL- DURCHFLUSSMESSGERÄT

Title (fr)

PROCÉDÉ DE CALORIMÉTRIE AU MOYEN D'UN DÉBITMÈTRE À ULTRASONS

Publication

EP 2786107 A2 20141008 (DE)

Application

EP 12781062 A 20121024

Priority

- DE 102011087215 A 20111128
- EP 2012070998 W 20121024

Abstract (en)

[origin: WO2013079264A2] The invention relates to a method and to a device for a measuring a heat quantity, wherein, using an ultrasonic flow measuring device which works on the principle of difference in elapsed time, the flow of a fluid, the chemical composition of which is known, through the lumen of the pipe is determined, and wherein the temperature of the fluid is determined before and after a heat exchanger, wherein, for the first determination of the temperature of the fluid, the speed of sound of the fluid is determined by the ultrasonic flow measuring device, and a temperature outside of the lumen of the pipe is determined.

IPC 8 full level

G01K 11/24 (2006.01); **G01K 17/10** (2006.01)

CPC (source: EP US)

G01F 1/662 (2013.01 - US); **G01K 7/16** (2013.01 - US); **G01K 11/24** (2013.01 - EP US); **G01K 13/02** (2013.01 - US); **G01K 17/10** (2013.01 - EP US); **G01L 13/00** (2013.01 - US); **G01F 1/667** (2013.01 - EP US); **G01F 1/668** (2013.01 - EP US)

Citation (search report)

See references of WO 2013079264A2

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 RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102011087215 A1 20130529; EP 2786107 A2 20141008; US 2015043612 A1 20150212; WO 2013079264 A2 20130606; WO 2013079264 A3 20140109

DOCDB simple family (application)

DE 102011087215 A 20111128; EP 12781062 A 20121024; EP 2012070998 W 20121024; US 201214359650 A 20121024