

Title (en)

OPTICAL PROBE FOR DETERMINING QUANTITIES OF A TWO-PHASE FLOW

Title (de)

OPTISCHE SONDE ZUR BESTIMMUNG DER MENGEN EINES ZWEIPHASENFLUSSES

Title (fr)

SONDE OPTIQUE POUR LA DETERMINATION DE GRANDEURS D'UN ECOULEMENT BIPHASIQUE

Publication

**EP 2271912 A1 20110112 (FR)**

Application

**EP 09745953 A 20090416**

Priority

- FR 2009050710 W 20090416
- FR 0852601 A 20080417

Abstract (en)

[origin: WO2009138634A1] The invention relates to an optical probe comprising an optical fibre (51) associated with a conical tip (7), made of sapphire or diamond, with a circular base (71) and having, between the base and the end, an annular groove (73) with a curved bottom (731) or at least one axisymmetric shoulder. The invention also relates to a method and a system for determining characteristic quantities of a two-phase flow using such a probe.

IPC 8 full level

**G01N 21/43** (2006.01); **G01F 1/7086** (2022.01); **G01F 1/74** (2006.01)

CPC (source: EP US)

**G01F 1/7086** (2013.01 - EP US); **G01F 1/74** (2013.01 - EP); **G01N 21/431** (2013.01 - EP); **G01F 1/712** (2013.01 - EP US); **G01N 2021/432** (2013.01 - EP); **G01N 2021/8528** (2013.01 - EP); **G01N 2201/0218** (2013.01 - EP); **G01N 2201/08** (2013.01 - EP)

Citation (search report)

See references of WO 2009138634A1

Designated contracting state (EPC)

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**FR 2930342 A1 20091023**; EP 2271912 A1 20110112; WO 2009138634 A1 20091119

DOCDB simple family (application)

**FR 0852601 A 20080417**; EP 09745953 A 20090416; FR 2009050710 W 20090416