

Title (en)

SYSTEM FOR MONITORING SOLID PARTICLES IN FLUID FLOW

Title (de)

SYSTEM ZUR ÜBERWACHUNG VON FESTSTOFFPARTIKELN IN EINEM FLUIDSTROM

Title (fr)

SYSTÈME DE SURVEILLANCE DE PARTICULES SOLIDES DANS UN ÉCOULEMENT DE FLUIDE

Publication

EP 4396557 A1 20240710 (EN)

Application

EP 22865139 A 20220830

Priority

- MY PI2021005004 A 20210901
- MY 2022050077 W 20220830

Abstract (en)

[origin: WO2023033641A1] The present invention provides a system for monitoring solid particles in a fluid or hydrocarbon flow and a method for monitoring the same. The system comprises a camera (101) for capturing images of the flow; a conditioning device (102); a filtering means for capturing solids; and a separator (108) for separating phases of the flow. The conditioning device is located upstream of the camera for isolating phases and solids in the flow before passing the flow through the camera. The camera communicates with a computer system that provides algorithms to interpret images captured by the camera for data on particle size distribution, concentration, and shape of the solids; and the filtering means provides solids for sampling.

IPC 8 full level

G01N 15/02 (2024.01); **G01N 15/00** (2024.01); **G01N 21/85** (2006.01)

CPC (source: EP)

G01N 15/0227 (2013.01); **G01N 21/85** (2013.01); **G01N 33/2823** (2013.01); **G01N 33/2835** (2013.01); **G01N 15/075** (2024.01); **G01N 2015/0053** (2013.01); **G01N 2015/0294** (2013.01)

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2023033641 A1 20230309; EP 4396557 A1 20240710

DOCDB simple family (application)

MY 2022050077 W 20220830; EP 22865139 A 20220830