

Title (en)

METHOD FOR CHARACTERISING PARTICLES BY IMAGE ANALYSIS

Title (de)

VERFAHREN ZUR CHARAKTERISIERUNG VON PARTIKELN DURCH BILDANALYSE

Title (fr)

PROCEDE DE CARACTERISATION DE PARTICULES PAR ANALYSE D'IMAGE

Publication

**EP 2923194 A1 20150930 (FR)**

Application

**EP 13802262 A 20131119**

Priority

- FR 1261016 A 20121120
- EP 2013074189 W 20131119

Abstract (en)

[origin: WO2014079849A1] A method for characterising particles comprising the following steps: Producing at least one image of the particles of a sample with a scanning electron microscope, capturing and processing the image. The processing operation consists of: for each so-called usable particle, measuring the maximum Feret length and minimum Feret width of same; defining a geometric model of the particle from the maximum Feret length and minimum Feret width of same; calculating a projected area of the particle from the geometric model and the minimum Feret width of same; calculating a volume of the particle from the geometric model, the projected area and the maximum Feret length of same; calculating a characteristic particle size on the basis of the geometric model, the minimum Feret width and maximum Feret length; calculating a volume form factor from the volume and characteristic size.

IPC 8 full level

**G01N 15/06** (2006.01); **G01N 15/00** (2006.01); **G01N 15/14** (2006.01)

CPC (source: EP US)

**G01N 15/1429** (2013.01 - US); **G01N 15/1433** (2024.01 - EP US); **H01J 37/222** (2013.01 - US); **H01J 37/28** (2013.01 - US); **G01N 2015/1006** (2013.01 - EP US); **G01N 2015/1493** (2013.01 - EP US); **H01J 2237/24571** (2013.01 - US); **H01J 2237/2801** (2013.01 - US)

Citation (search report)

See references of WO 2014079849A1

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

DOCDB simple family (publication)

**FR 2998370 A1 20140523**; CN 104797923 A 20150722; EP 2923194 A1 20150930; JP 2016502661 A 20160128; KR 20150086297 A 20150727; US 2015300941 A1 20151022; WO 2014079849 A1 20140530

DOCDB simple family (application)

**FR 1261016 A 20121120**; CN 201380060710 A 20131119; EP 13802262 A 20131119; EP 2013074189 W 20131119; JP 2015542303 A 20131119; KR 20157015324 A 20131119; US 201314443571 A 20131119