

Title (en)

DEVICE AND METHOD FOR OBSERVING MICROPARTICLES AND NANOPARTICLES

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BEOBACHTUNG VON MIKROPARTIKELN UND NANOPARTIKELN

Title (fr)

DISPOSITIF ET PROCEDE POUR L'OBSERVATION DE MICROPARTICULES ET DE NANOPARTICULES

Publication

EP 3938831 A1 20220119 (FR)

Application

EP 20714876 A 20200310

Priority

- FR 1902589 A 20190313
- EP 2020056382 W 20200310

Abstract (en)

[origin: WO2020182828A1] The invention relates to a method for obtaining an image, using a microscope (1), of a set of particles, conjugated from a digital camera (3) via the microscope (1), the set of particles comprising nanoparticles not resolved by the microscope (1) and microparticles resolved by the microscope (1), wherein the particles are illuminated by a light source (2), wherein the light source (2) illuminates the digital camera (3) via the microscope (1). The method comprising the following steps: - overexposing an image recorded by the digital camera (3), by means of the light source (2) in order to cause, for an observer, variations in light intensity for the nanoparticles to appear in the recorded image; - digitally correcting the overexposure of the recorded image in order to cause, for the observer, variations in light intensity for the microparticles to appear in the recorded image simultaneously with the variations in light intensity for the nanoparticles.

IPC 8 full level

G02B 21/00 (2006.01); **G01N 15/00** (2006.01); **G01N 15/14** (2006.01); **G01N 21/45** (2006.01); **G01N 21/47** (2006.01); **G02B 21/36** (2006.01)

CPC (source: EP US)

G02B 21/0056 (2013.01 - EP); **G02B 21/365** (2013.01 - US); **G02B 21/367** (2013.01 - EP); **G06T 5/40** (2013.01 - US); **G06T 5/92** (2024.01 - US); **H04N 23/72** (2023.01 - US); **G01N 15/1433** (2024.01 - EP); **G01N 2015/0038** (2013.01 - EP); **G06T 2207/10056** (2013.01 - US)

Citation (search report)

See references of WO 2020182828A1

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)

WO 2020182828 A1 20200917; CN 113692545 A 20211123; CN 113692545 B 20231027; EP 3938831 A1 20220119; FR 3093807 A1 20200918; FR 3093807 B1 20210416; JP 2022524464 A 20220502; US 2022247909 A1 20220804

DOCDB simple family (application)

EP 2020056382 W 20200310; CN 202080020662 A 20200310; EP 20714876 A 20200310; FR 1902589 A 20190313; JP 2021555079 A 20200310; US 202017432048 A 20200310