

Title (en)

PARTICLE ANALYSIS METHOD AND PARTICLE ANALYZER

Title (de)

TEILCHENANALYSEVERFAHREN UND TEILCHENANALYSATOR

Title (fr)

PROCÉDÉ D'ANALYSE DE PARTICULES ET ANALYSEUR DE PARTICULES

Publication

EP 4100716 A1 20221214 (EN)

Application

EP 21707394 A 20210205

Priority

- JP 2020018279 A 20200205
- JP 2021004377 W 20210205

Abstract (en)

[origin: WO2021157711A1] Provided is a means capable of obtaining more clinically useful information when particles contained in a blood sample are analyzed using a metachromatic orthochromatic dye. In a particle analysis method of analyzing particles contained in a blood sample, the particles are stained with a metachromatic orthochromatic dye, the stained particles are irradiated with light, intensity of a first fluorescence derived from a stacking component of the metachromatic orthochromatic dye and intensity of a second fluorescence derived from an intercalation component of the metachromatic orthochromatic dye are measured, the first fluorescence and the second fluorescence being emitted by each particle contained in the blood sample, the intensity of the first fluorescence and the intensity of the second fluorescence emitted by each of the particles are normalized by the size of each of the particles to obtain a fluorescence concentration of each of the first fluorescence and the second fluorescence in each of the particles, each of the particles is clustered into a plurality of particle clusters including at least two of an erythrocyte cluster, a platelet cluster and a nucleated cell cluster, in a two-dimensional plot of the fluorescence concentration obtained by the normalization, and a size histogram in which the size of each particle included in the particle cluster is a class is created for at least one particle cluster included in the plurality of particle clusters.

IPC 8 full level

G01N 15/14 (2006.01); **G01N 33/48** (2006.01); **G01N 33/50** (2006.01); **G01N 33/80** (2006.01)

CPC (source: EP)

G01N 15/1459 (2013.01); **G01N 33/5094** (2013.01); **G01N 2015/1006** (2013.01)

Citation (search report)

See references of WO 2021157711A1

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 2021157711 A1 20210812; CN 114641680 A 20220617; EP 4100716 A1 20221214; JP 2021124398 A 20210830; JP 7491703 B2 20240528

DOCDB simple family (application)

JP 2021004377 W 20210205; CN 202180006282 A 20210205; EP 21707394 A 20210205; JP 2020018279 A 20200205