

Title (en)

A METHOD FOR PURIFYING A LIQUID WITH MAGNETIC AND CENTRIFUGAL FORCES

Title (de)

VERFAHREN ZUR REINIGUNG EINER FLÜSSIGKEIT MIT MAGNET- UND ZENTRIFUGALKRÄFTEN

Title (fr)

PROCÉDÉ DE PURIFICATION D'UN LIQUIDE AVEC DES FORCES MAGNÉTIQUES ET CENTRIFUGES

Publication

**EP 3860739 A1 20210811 (EN)**

Application

**EP 19794890 A 20191007**

Priority

- NO 20181290 A 20181005
- EP 2019077121 W 20191007

Abstract (en)

[origin: WO2020070336A1] The present disclosure pertains to a method for separating contaminants from a fluid, said method comprising the steps of: a) adding nanoparticles to a fluid comprising contaminants whereby said nanoparticles and said contaminants combine to form combined particles thus providing a fluid comprising combined particles, b) subjecting said fluid comprising combined particles to (i) a centrifuged forced flow, and (ii) a Lorentz force and/or an electrostatic force, wherein said (i) centrifuged forced flow and said (ii) Lorentz force and/or electrostatic force are arranged to allow for tuning a combined total force on said combined particles to provide - one or more separation zones wherein said combined particles are concentrated, and - one or more further separation zones wherein the fluid is depleted of said combined particles.

IPC 8 full level

**B01D 17/06** (2006.01); **B01D 17/02** (2006.01); **B01D 17/04** (2006.01)

CPC (source: EP NO)

**B01D 17/02** (2013.01 - EP); **B01D 17/0205** (2013.01 - EP); **B01D 17/0217** (2013.01 - EP); **B01D 17/04** (2013.01 - EP); **B01D 17/047** (2013.01 - EP); **B01D 17/06** (2013.01 - EP); **B03C 1/00** (2013.01 - NO); **B03C 3/00** (2013.01 - NO); **B03C 5/00** (2013.01 - NO); **B03C 11/00** (2013.01 - NO); **B04B 1/00** (2013.01 - NO); **B82Y 30/00** (2013.01 - NO); **B82Y 99/00** (2013.01 - NO); **C02F 1/463** (2013.01 - NO); **C02F 1/48** (2013.01 - NO); **C10G 33/02** (2013.01 - NO); **H01F 1/00** (2013.01 - NO); **B03C 2201/00** (2013.01 - NO); **B04C 2009/001** (2013.01 - NO)

Citation (search report)

See references of WO 2020070336A1

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 2020070336 A1 20200409**; EP 3860739 A1 20210811; NO 20181290 A1 20200406; NO 346022 B1 20211227

DOCDB simple family (application)

**EP 2019077121 W 20191007**; EP 19794890 A 20191007; NO 20181290 A 20181005