

Title (en)
METHOD FOR CLEANING SYSTEMS

Title (de)
VERFAHREN ZUM REINIGEN VON ANLAGEN

Title (fr)
PROCÉDÉ POUR LE NETTOYAGE D'INSTALLATIONS

Publication
EP 3122863 A1 20170201 (DE)

Application
EP 15726856 A 20150324

Priority
• AT 2172014 A 20140326
• AT 2015050073 W 20150324

Abstract (en)
[origin: WO2015143468A1] The invention relates to a method for cleaning a system, comprising conducting through a cleaning composition which comprises at least one oxidizing agent and conducting through an indicator composition for detecting the cleanliness state of the system by way of observation of a colour change of the indicator composition, to which end colour values are determined at one or more points and are compared with a setpoint value, with the characterizing part that: a cleaning composition which contains a colour indicator is used, which cleaning composition is conducted continuously through the system; the colour values F of the composition are determined at fixed time intervals after the exit thereof from the system; differences ΔF are formed from two colour values which follow one another; colour values are determined before commissioning of the clean system until the difference $\Delta F=0$, after which the colour value measured last is defined as an inherent system value FA and a maximum tolerable deviation from said value is fixed as a setpoint value ΔFA for cleaning; and the cleaning of the system is carried out after operation thereof until a difference of $\leq \Delta FA$ is measured.

IPC 8 full level
C11D 11/00 (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01)

CPC (source: AT CN EP US)
B08B 9/032 (2013.01 - US); **B67D 1/07** (2013.01 - US); **C11D 3/391** (2013.01 - AT); **C11D 3/3942** (2013.01 - CN EP US); **C11D 3/3947** (2013.01 - CN EP US); **C11D 3/3956** (2013.01 - CN EP US); **C11D 2111/20** (2024.01 - CN EP US)

Citation (search report)
See references of WO 2015143468A1

Cited by
DE102019100961A1

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 2015143468 A1 20151001; AT 515571 A1 20151015; AT 515571 B1 20180115; CN 106459848 A 20170222; CN 106459848 B 20200417; DK 3122863 T3 20180614; EP 3122863 A1 20170201; EP 3122863 B1 20180314; ES 2671477 T3 20180606; HR P20180895 T1 20180713; HU E038035 T2 20180928; PL 3122863 T3 20180831; PT 3122863 T 20180529; RS 57251 B1 20180831; SI 3122863 T1 20180731; TR 201807247 T4 20180621; US 10190080 B2 20190129; US 2017191006 A1 20170706

DOCDB simple family (application)
AT 2015050073 W 20150324; AT 2172014 A 20140326; CN 201580027467 A 20150324; DK 15726856 T 20150324; EP 15726856 A 20150324; ES 15726856 T 20150324; HR P20180895 T 20180608; HU E15726856 A 20150324; PL 15726856 T 20150324; PT 15726856 T 20150324; RS P20180599 A 20150324; SI 201530271 T 20150324; TR 201807247 T 20150324; US 201515128549 A 20150324