

Title (en)
METHOD AND DEVICE FOR CLEANING WASTEWATER FROM A COKE QUENCHING TOWER WITH SHORTENED CATCH BASIN DWELL TIME

Title (de)
VERFAHREN UND VORRICHTUNG ZUR REINIGUNG VON ABWASSER AUS EINEM KOKSLÖSCHTURM MIT VERKÜRZTER AUFFANGBECKENVERWEILZEIT

Title (fr)
PROCÉDÉ ET DISPOSITIF D'ÉPURATION DES EAUX USÉES D'UNE TOUR D'EXTINCTION DU COKE AVEC UN TEMPS DE SÉJOUR EN BASSIN DE COLLECTE RÉDUIT

Publication
EP 2782872 A1 20141001 (DE)

Application
EP 12791087 A 20121024

Priority
• DE 102011118937 A 20111121
• EP 2012004435 W 20121024

Abstract (en)
[origin: WO2013075776A1] The invention relates to a method for cleaning wastewater from a coke quenching tower with shortened catch basin dwell time, in which method water is used to quench hot coke and the quenching water is captured in a catch basin, which is dimensioned so as to suffice for a few quenching processes, and, without a further settling process, the quenching water reaches a downstream hydrodynamic cleaning device, in which the solid material is separated from the quenching water by mechanical separation methods, so that a space-saving arrangement of the catch basin without a settling device is possible. The invention also relates to an arrangement that consists of a quenching tower, a quenching water channel for transferring the excess quenching water to a catch basin, a catch basin, a hydrocyclone, a gap filter and a centrifuge, which is used for separating the solid material and the quenching water.

IPC 8 full level
C02F 1/38 (2006.01); **B01D 21/24** (2006.01); **C02F 103/16** (2006.01)

CPC (source: EP US)
C02F 1/38 (2013.01 - EP US); **C02F 9/00** (2013.01 - EP US); **C10B 39/08** (2013.01 - EP US); **B01D 21/267** (2013.01 - EP US); **C02F 2103/16** (2013.01 - EP US)

Citation (search report)
See references of WO 2013075776A1

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

DOCDB simple family (publication)
DE 102011118937 A1 20130523; AR 088880 A1 20140716; CN 104039712 A 20140910; EP 2782872 A1 20141001; IN 3638CHN2014 A 20150703; JP 2015502844 A 20150129; KR 20140097373 A 20140806; RU 2014125239 A 20151227; TW 201343235 A 20131101; US 2014305884 A1 20141016; WO 2013075776 A1 20130530

DOCDB simple family (application)
DE 102011118937 A 20111121; AR P120104303 A 20121115; CN 201280066723 A 20121024; EP 12791087 A 20121024; EP 2012004435 W 20121024; IN 3638CHN2014 A 20140515; JP 2014541550 A 20121024; KR 20147016309 A 20121024; RU 2014125239 A 20121024; TW 101141170 A 20121106; US 201214359418 A 20121024