

Title (en)

PROCESS FLUID INJECTION INTO SHAFT FURNACE WITH INJECTOR STATUS TEST

Title (de)

PROZESSFLÜSSIGKEITSINJEKTION IN EINEN SCHACHTOFEN MIT INJEKTORZUSTANDSPRÜFUNG

Title (fr)

INJECTION DE FLUIDE DE TRAITEMENT DANS UN FOUR À CUVE AVEC TEST D'ÉTAT D'INJECTEUR

Publication

EP 3642370 A1 20200429 (EN)

Application

EP 18731135 A 20180621

Priority

- EP 17177525 A 20170622
- EP 17001674 A 20171011
- EP 2018066630 W 20180621

Abstract (en)

[origin: WO2018234481A1] Injection of a process fluid into a shaft furnace by means of n injectors, whereby the status of said n injectors is tested by supplying a test fluid to each injector at a predetermined pressure, measuring a corresponding test fluid flow rate through the injector and comparing the measured test fluid flow rate with a predetermined safe flow-rate range or supplying the test fluid to each injector at a predetermined flow rate, measuring the pressure drop over the injector or a nozzle part thereof and comparing the measured pressure drop with a predetermined safe pressure-drop range.

IPC 8 full level

C21B 5/00 (2006.01); **C21B 7/24** (2006.01); **C21B 11/02** (2006.01); **C21B 13/02** (2006.01); **F27B 1/16** (2006.01); **F27B 1/26** (2006.01); **F27D 19/00** (2006.01); **F27D 21/00** (2006.01); **F27D 21/04** (2006.01)

CPC (source: EP)

C21B 5/006 (2013.01); **C21B 7/24** (2013.01); **C21B 11/02** (2013.01); **C21B 13/02** (2013.01); **F27B 1/16** (2013.01); **F27B 1/26** (2013.01); **F27D 19/00** (2013.01); **C21B 7/16** (2013.01); **C21B 2300/04** (2013.01); **F27D 21/04** (2013.01); **F27D 2019/0006** (2013.01); **F27D 2021/0007** (2013.01)

Citation (search report)

See references of WO 2018234481A1

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 2018066630 W 20180621; CN 201880049781 A 20180621; EP 18731135 A 20180621; RU 2020101703 A 20180621