

Title (en)

DEVICE AND USE OF THE DEVICE FOR PREHEATING AT LEAST ONE FLUID

Title (de)

VORRICHTUNG UND VERWENDUNG DER VORRICHTUNG ZUM VORERWÄRMEN MINDESTENS EINES FLUIDS

Title (fr)

DISPOSITIF DE PRÉCHAUFFAGE D'AU MOINS UN FLUIDE ET UTILISATION DUDIT DISPOSITIF

Publication

EP 3512628 A1 20190724 (DE)

Application

EP 17764612 A 20170912

Priority

- EP 16188612 A 20160913
- EP 2017072887 W 20170912

Abstract (en)

[origin: WO2018050635A1] The invention relates to a device (10) and to the use thereof for preheating at least one fluid. The device (10) has a solidly formed heating body (12). Channels (16) are formed in the heating body (12) for directing through the fluid. The heating body (12) can be heated. The heating body (12) is designed for heating the fluid to a target temperature within a target time, wherein the target temperature is at least one temperature at which a predetermined chemical reaction of the fluid occurs with a predetermined amount of conversion within a predetermined time. The target time is less than the predetermined time. The heating body (12) is heated for preheating the fluid to the target temperature and the fluid is directed through the channels (16) within the target time.

IPC 8 full level

B01J 19/24 (2006.01); **F28F 7/02** (2006.01); **F28F 21/04** (2006.01)

CPC (source: EP KR US)

B01J 6/008 (2013.01 - US); **B01J 8/0221** (2013.01 - EP KR); **B01J 8/025** (2013.01 - EP KR); **B01J 8/0285** (2013.01 - EP KR); **B01J 19/0013** (2013.01 - KR); **B01J 19/2485** (2013.01 - EP KR); **C01B 3/24** (2013.01 - EP US); **C09C 1/54** (2013.01 - US); **F28F 7/02** (2013.01 - EP KR US); **F28F 21/04** (2013.01 - EP KR US); **B01J 2208/00176** (2013.01 - EP KR); **B01J 2208/00194** (2013.01 - EP KR); **B01J 2208/00407** (2013.01 - EP KR); **B01J 2208/00415** (2013.01 - EP KR); **B01J 2208/0053** (2013.01 - EP KR); **B01J 2219/00092** (2013.01 - EP KR); **B01J 2219/00135** (2013.01 - EP KR); **B01J 2219/00247** (2013.01 - EP KR); **C01B 2203/0272** (2013.01 - US); **C01B 2203/0833** (2013.01 - US); **C01B 2203/1241** (2013.01 - US); **F28D 2021/0022** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2018050635A1

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 2018050635 A1 20180322; CN 109641190 A 20190416; EA 201990682 A1 20191031; EP 3512628 A1 20190724; JP 2019534138 A 20191128; KR 20190055078 A 20190522; US 2019358601 A1 20191128

DOCDB simple family (application)

EP 2017072887 W 20170912; CN 201780053197 A 20170912; EA 201990682 A 20170912; EP 17764612 A 20170912; JP 2019513990 A 20170912; KR 20197006840 A 20170912; US 201716332017 A 20170912