

Title (en)

VAPOR GENERATION SYSTEM AND METHOD FOR GENERATION OF VAPOR

Title (de)

DAMPFERZEUGUNGSSYSTEM UND VERFAHREN ZUR ERZEUGUNG VON DAMPF

Title (fr)

SYSTÈME DE GÉNÉRATION DE VAPEUR ET PROCÉDÉ DE GÉNÉRATION DE VAPEUR

Publication

EP 3330609 A1 20180606 (EN)

Application

EP 16201980 A 20161202

Priority

EP 16201980 A 20161202

Abstract (en)

The present invention relates to a system (1) and method for generation of vapor. The system comprises a channel (3) for a high temperature fluid, an economizer (7), an evaporator (8) and a superheater (9) arranged in the channel and a liquid-vapor separator (10). The economizer is arranged to preheat a first fluid and the evaporator is arranged to heat a second fluid by heat exchange with the high temperature fluid. The separator is arranged to receive heated second fluid and to separate liquid and vapor thereof. The superheater is arranged to receive vapor discharged by the separator, to heat the vapor by heat exchange with the high temperature fluid and to discharge superheated vapor. The second fluid comprises preheated first fluid and/or liquid discharged by the separator. The system comprises further a heating device (23), which is arranged to heat liquid in the separator so as to convert liquid to vapor.

IPC 8 full level

F22B 21/26 (2006.01); **C11B 3/14** (2006.01); **F22B 37/22** (2006.01)

CPC (source: EP)

C11B 3/14 (2013.01); **F22B 21/26** (2013.01); **F22B 37/228** (2013.01)

Citation (applicant)

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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)

EP 3330609 A1 20180606; CN 110234929 A 20190913; CN 110234929 B 20201016; DK 3548806 T3 20201102; EP 3548806 A1 20191009; EP 3548806 B1 20200805; PL 3548806 T3 20201019; WO 2018099777 A1 20180607

DOCDB simple family (application)

EP 16201980 A 20161202; CN 201780085428 A 20171122; DK 17803915 T 20171122; EP 17803915 A 20171122; EP 2017080010 W 20171122; PL 17803915 T 20171122