

Title (en)

METHOD FOR GENERATING STEAM WITH DEFINED STEAM PARAMETERS

Title (de)

VERFAHREN ZUR ERZEUGUNG VON WASSERDAMPF MIT DEFINIERTEN DAMPFPARAMETERN

Title (fr)

PROCÉDÉ DE PRODUCTION DE VAPEUR AYANT DES PARAMÈTRES DE VAPEUR DÉFINIS

Publication

EP 4271937 A1 20231108 (DE)

Application

EP 22710557 A 20220303

Priority

- DE 102021202617 A 20210318
- EP 2022055451 W 20220303

Abstract (en)

[origin: WO2022194564A1] The present invention relates to a method for generating steam with defined steam parameters. The method is characterized by the following method steps: - pressurized internal combustion of hydrogen with oxygen by adding water in a steam generator (1) and generation of fresh steam; - feeding the fresh steam generated in the steam generator (1) to a steam turbine (2); - expanding the fresh steam along an expansion section in the steam turbine (2); - removing intermediate steam along the expansion section and/or removing exhaust steam at the end of the expansion section with defined steam parameters, and - feeding the removed intermediate steam and/or exhaust steam to a subsequent industrial process.

IPC 8 full level

F22B 1/00 (2006.01); **F01K 25/00** (2006.01)

CPC (source: EP)

F01K 25/005 (2013.01); **F22B 1/003** (2013.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102021202617 A1 20220922; BR 112023017286 A2 20230926; CN 116997749 A 20231103; EP 4271937 A1 20231108; JP 2024511757 A 20240315; WO 2022194564 A1 20220922

DOCDB simple family (application)

DE 102021202617 A 20210318; BR 112023017286 A 20220303; CN 202280021865 A 20220303; EP 2022055451 W 20220303; EP 22710557 A 20220303; JP 2023557123 A 20220303