

Title (en)

METHOD FOR OPERATING AN ELECTROLYSIS PLANT, AND ELECTROLYSIS PLANT

Title (de)

VERFAHREN ZUM BETRIEB EINER ELEKTROLYSEANLAGE UND ELEKTROLYSEANLAGE

Title (fr)

PROCÉDÉ D'EXPLOITATION D'UNE INSTALLATION D'ÉLECTROLYSE ET INSTALLATION D'ÉLECTROLYSE

Publication

EP 4334500 A1 20240313 (DE)

Application

EP 22728108 A 20220505

Priority

- EP 21186286 A 20210719
- EP 2022062152 W 20220505

Abstract (en)

[origin: WO2023001421A1] The invention relates to a method for operating an electrolysis plant (100) for producing hydrogen and oxygen as product gases, wherein the hydrogen product gas, which additionally contains oxygen as a foreign gas, is fed from an electrolyser (1) to a downstream gas separator (3), wherein when a predefined limit value for the oxygen concentration in the hydrogen product gas is exceeded, hydrogen having a low oxygen concentration is fed to the gas separator (3) such that the oxygen concentration in the hydrogen product gas is lowered. The invention further relates to a corresponding electrolysis plant (100).

IPC 8 full level

C25B 1/04 (2021.01); **C25B 9/17** (2021.01); **C25B 15/023** (2021.01); **C25B 15/08** (2006.01)

CPC (source: EP)

C25B 1/04 (2013.01); **C25B 9/17** (2021.01); **C25B 15/023** (2021.01); **C25B 15/085** (2021.01); **Y02E 60/36** (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)

EP 4123052 A1 20230125; AU 2022314871 A1 20240118; CA 3226818 A1 20230126; CN 117730169 A 20240319; EP 4334500 A1 20240313; WO 2023001421 A1 20230126

DOCDB simple family (application)

EP 21186286 A 20210719; AU 2022314871 A 20220505; CA 3226818 A 20220505; CN 202280050468 A 20220505; EP 2022062152 W 20220505; EP 22728108 A 20220505