

Title (en)
POWER SUPPLY AND METHOD FOR PRODUCTION THEREOF

Title (de)
STROMZUFÜHRUNG UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
ALIMENTATION ÉLECTRIQUE ET SON PROCÉDÉ DE PRODUCTION

Publication
EP 4139943 A1 20230301 (DE)

Application
EP 21721065 A 20210422

Priority

- DE 102020205184 A 20200423
- EP 2021060522 W 20210422

Abstract (en)
[origin: WO2021214213A1] The invention relates to a power supply (110, 110' ...) for transporting electrical energy from an energy source (144) to a device (148) or from the device (148) to the energy source (144), the energy source (144) being arranged in a warm region (142) and the device (148) being arranged in a cold region (146). The power supply (110, 110') has a stack (118) comprising at least two films (120, 120' ...), each film (120, 120' ...) comprising an electrically conductive material which is designed to transport the electrical energy, each film (120, 120' ...) having an electrical connection which is designed to receive the electrical energy or to deliver the electrical energy, and each film (120, 120' ...) comprising a plurality of flow channels (128) for conveying a fluid stream, and the fluid stream comprising a refrigerant mixture or a gas stream to be cooled or a gas stream to be liquefied. The films (120, 120', ...) comprised by the stack (118) have a first flow path (134) through the flow channels (128) which is designed to receive the fluid stream at a high-pressure level from the warm region (142), and a second flow path (134') through the flow channels (128) which is designed to receive the fluid stream at a low-pressure level from the cold region (146).

IPC 8 full level
H01B 12/16 (2006.01); **H01B 7/29** (2006.01); **H02G 15/34** (2006.01)

CPC (source: EP KR US)
H01B 12/16 (2013.01 - EP KR US); **H02G 15/34** (2013.01 - EP KR US); **Y02E 40/60** (2013.01 - EP KR)

Citation (search report)
See references of WO 2021214213A1

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 102020205184 A1 20211028; EP 4139943 A1 20230301; JP 2023522464 A 20230530; KR 20220158010 A 20221129; US 2023155363 A1 20230518; WO 2021214213 A1 20211028

DOCDB simple family (application)
DE 102020205184 A 20200423; EP 2021060522 W 20210422; EP 21721065 A 20210422; JP 2022564471 A 20210422; KR 20227036387 A 20210422; US 202117996870 A 20210422