Title (en)

APPARATUS FOR TRANSMITTING ELECTRICAL ENERGY WITH A SUPERCONDUCTING CURRENT CARRIER

Title (de)

VORRICHTUNG ZUM ÜBERTRAGEN ELEKTRISCHER ENERGIE MIT EINEM SUPRALEITENDEN STROMTRÄGER

Title (fr)

APPAREIL DE TRANSMISSION D'ÉNERGIE ÉLECTRIQUE DOTÉ D'UN SUPPORT DE COURANT SUPRACONDUCTEUR

Publication

EP 4248468 A1 20230927 (DE)

Application

EP 21797997 A 20211018

Priority

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Abstract (en)

[origin: WO2022106131A1] Apparatus for transmitting electrical energy with a superconducting current carrier, in which the superconducting current carrier to be cooled is accommodated in a first cooling channel, which first cooling channel is connected by way of a coolant feed line to a supply device for a first cooling medium and is surrounded by at least one second cooling channel, for conducting through a second cooling medium, which is flow-connected to a coolant-discharge line for heated second cooling medium, wherein a supercooled, liquefied gas is used as the first cooling medium, is characterized according to the invention in that a liquefied gas is used as the second cooling medium and the second cooling channel is equipped with means for removing a gas phase occurring due to evaporation of the second cooling medium.

IPC 8 full level

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CPC (source: EP US)

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