

Title (en)
SYSTEM CONFIGURED TO DELIVER A POLYPHASE CURRENT OF CONSTANT FREQUENCY FROM A SYNCHRONOUS GENERATOR

Title (de)
SYSTEM ZUR LIEFERUNG EINES MEHRPHASENSTROMS MIT KONSTANTER FREQUENZ AUS EINEM SYNCHRONGENERATOR

Title (fr)
SYSTÈME CONFIGURÉ POUR DÉLIVRER UN COURANT POLYPHASÉ DE FRÉQUENCE CONSTANTE À PARTIR D'UNE GÉNÉRATRICE SYNCHRONE

Publication
EP 3939153 A1 20220119 (FR)

Application
EP 20725867 A 20200310

Priority
• FR 1902569 A 20190313
• FR 2020050487 W 20200310

Abstract (en)
[origin: WO2020183102A1] The invention relates to a system (1) configured to deliver as output a polyphase current of constant frequency from a synchronous generator (2) driven at variable speed, said system successively comprising, at the output of said generator, an AC-to-DC active rectifier (3) including one arm per phase of the current, a DC bus (4) and a DC-to-AC inverter (5) for the output of said system comprising one arm per phase of the current, the inverter or the DC bus comprising an arm connected to the neutral (8), each arm including a controllable switch (6), said system comprising an electronic control unit driving said rectifier and comprising means for tracking a voltage for the rectifier and/or the inverter and means for controlling said inverter, said system including an EMC filter (9) at the output of said inverter, said filter including one arm for each phase of the current, each arm comprising an inductor (10), a capacitor (11) connected in a bypass downstream of said inductor, the arm connected to the neutral being connected to each bypass.

IPC 8 full level
H02M 5/458 (2006.01); **H02M 1/12** (2006.01); **H02M 7/797** (2006.01)

CPC (source: EP US)
H02K 21/12 (2013.01 - US); **H02M 5/4585** (2013.01 - EP US); **H02P 9/102** (2013.01 - US); **H02M 1/123** (2021.05 - EP); **H02M 7/797** (2013.01 - EP); **H02P 2103/20** (2015.01 - US)

Citation (search report)
See references of WO 2020183102A1

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)
WO 2020183102 A1 20200917; EP 3939153 A1 20220119; FR 3093876 A1 20200918; FR 3093876 B1 20220121; US 2022181957 A1 20220609

DOCDB simple family (application)
FR 2020050487 W 20200310; EP 20725867 A 20200310; FR 1902569 A 20190313; US 202017437308 A 20200310