

Title (en)
WIND TURBINE

Title (de)
WINDENERGIEANLAGE

Title (fr)
ÉOLIENNE

Publication
EP 3909107 A1 20211117 (DE)

Application
EP 20700197 A 20200107

Priority
• DE 102019000025 A 20190107
• EP 2020050193 W 20200107

Abstract (en)
[origin: WO2020144169A1] The invention relates to a wind turbine (1) comprising a converter (7) connected to a generator (4), which converter supplies at least some of the energy generated by the electrical generator (4) into an electrical grid (10), sensors (31, 32) for interference in the electrical grid (10) and a controller module (20) for controlling the converter (7) and/or the wind turbine (1). The controller module (20) comprises a grid interference module (25) which, in the case of detected interference in the electrical grid (10), counteracts the interference. According to the invention, the controller module (20) comprises an override module (26) which, in the case of a detected interference in the grid (10), is provided in order to deactivate the grid interference module (25) at least in part. The invention thus improves the behavior in interference situations in that it detects, over the course of the interference, that at least parts of the inherent grid stabilization functions do not counteract the interference and, in this specific situation, it deactivates the respective harmful grid stabilization functions. The invention further relates to a corresponding method.

IPC 8 full level
H02J 3/00 (2006.01); **F03D 7/02** (2006.01); **H02J 3/38** (2006.01); **H02J 3/50** (2006.01)

CPC (source: EP US)
F03D 7/0284 (2013.01 - US); **F03D 9/255** (2017.02 - US); **H02J 3/001** (2020.01 - EP US); **H02J 3/38** (2013.01 - EP); **H02J 3/50** (2013.01 - EP); **F03D 7/0284** (2013.01 - EP); **H02J 3/50** (2013.01 - US); **H02J 2300/28** (2020.01 - EP US); **Y02E 10/72** (2013.01 - EP); **Y02E 10/76** (2013.01 - EP)

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)
DE 102019000025 A1 20200709; CN 113261170 A 20210813; EP 3909107 A1 20211117; US 11920568 B2 20240305; US 2022069584 A1 20220303; WO 2020144169 A1 20200716

DOCDB simple family (application)
DE 102019000025 A 20190107; CN 202080008035 A 20200107; EP 2020050193 W 20200107; EP 20700197 A 20200107; US 202017420923 A 20200107