

Title (en)
WIND ENERGY SYSTEM AND METHOD FOR IDENTIFYING LOW-FREQUENCY OSCILLATIONS IN AN ELECTRICAL SUPPLY NETWORK

Title (de)
WINDENERGIESYSTEM UND VERFAHREN ZUM ERKENNEN NIEDERFREQUENTER SCHWINGUNGEN IN EINEM ELEKTRISCHEN VERSORGUNGSNETZ

Title (fr)
SYSTÈME ÉOLIEN ET PROCÉDÉ POUR DÉTECTER DES OSCILLATIONS DE BASSE FRÉQUENCE DANS UN RÉSEAU D'ALIMENTATION ÉLECTRIQUE

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Abstract (en)
[origin: WO2020008036A1] The invention relates to a method for identifying low-frequency oscillations, in particular subsynchronous resonances, in an electrical supply network (510), wherein the electrical supply network (510) has a network voltage with a nominal network frequency, comprising the following steps: detecting at least one electrical signal of the electrical supply network (510) as at least one test signal and filtering and/or transforming the at least one detected test signal into at least one analysis signal, deriving the at least one analysis signal with respect to time or calculating the difference between temporally spaced values of the analysis signal, in order to obtain a gradient signal in each case, identifying the presence of a low-frequency oscillation if the gradient signal or at least one of the gradient signals satisfies a predefined analysis criterion, in particular that at least one predefined analysis limit is exceeded.

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