

Title (en)
SYSTEMS AND METHODS FOR PERFORMING AUTOMATIC REAL-TIME HARMONICS ANALYSES FOR USE IN REAL-TIME POWER ANALYTICS OF AN ELECTRICAL POWER DISTRIBUTION SYSTEM

Title (de)
SYSTEME UND VERFAHREN ZUM DURCHFÜHREN VON AUTOMATISCHEN ECHTZEITHARMONIEANALYSEN ZUR VERWENDUNG IN ECHTZEITSTROMANALYTIKEN EINES ELEKTRISCHEN STROMVERSORGUNGSYSTEMS

Title (fr)
SYSTEMES ET PROCEDES POUR REALISER UNE ANALYSE DES HARMONIQUES AUTOMATIQUE EN TEMPS REEL A UTILISER DANS UNE ANALYSE D'ENERGIE EN TEMPS REEL D'UN SYSTEME DE DISTRIBUTION D'ENERGIE ELECTRIQUE

Publication
EP 2005202 A2 20081224 (EN)

Application
EP 07760596 A 20070412

Priority
• US 2007066567 W 20070412
• US 79217506 P 20060412
• US 71737807 A 20070312

Abstract (en)
[origin: WO2007121322A2] A system for conducting performing real-time harmonics analysis of an electrical power distribution and transmission system is disclosed. The system includes a data acquisition component, a power analytics server and a client terminal. The data acquisition component is communicatively connected to a sensor configured to acquire realtime data output from the electrical system. The power analytics server is communicatively connected to the data acquisition component and is comprised of a virtual system modeling engine, an analytics engine and a machine learning engine. The machine learning engine is configured to store and process patterns observed from the real-time data output and the predicted data output, forecasting harmonic distortions in the electrical system subjected to a simulated contingency event.

IPC 8 full level
G01R 23/16 (2006.01); **G05B 13/02** (2006.01); **G05B 17/02** (2006.01); **G05B 23/02** (2006.01)

CPC (source: EP)
G05B 13/0265 (2013.01); **G05B 17/02** (2013.01); **G05B 23/0243** (2013.01); **G06F 30/20** (2020.01); **G06F 2119/06** (2020.01); **Y02E 60/00** (2013.01); **Y04S 40/20** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007121322 A2 20071025; WO 2007121322 A3 20080626; AU 2007238094 A1 20071025; AU 2007238094 B2 20120315; CA 2648953 A1 20071025; CA 2648953 C 20160614; EP 2005202 A2 20081224; EP 2005202 A4 20110316; NO 20084773 L 20090109

DOCDB simple family (application)
US 2007066567 W 20070412; AU 2007238094 A 20070412; CA 2648953 A 20070412; EP 07760596 A 20070412; NO 20084773 A 20081112