Title (en)
INVERTER FOR DRIVING AN ELECTRIC MOTOR COMPRISING AN INTEGRATED REGULATOR

Title (de)
WECHSELRICHTER MIT EINGEBAUTER REGELEINRICHTUNG ZUR STEUERUNG EINES ELEKTROMOTORS

Title (fr)
ONDULEUR DE PILOTAGE D'UN MOTEUR ELECTRIQUE COMPORTANT UN REGULATEUR INTEGRE

Publication
EP 2504195 A2 20121003 (FR)

Application
EP 10781638 A 20101110

Priority
• FR 0958404 A 20091126
• EP 2010067185 W 20101110

Abstract (en)
[origin: WO2011064095A2] The invention relates to driving inverter comprising an alternating current generator (3) supplying a current to a terminal board (4) to be connected with the phases of an electric motor (6), a power line (20), an alternating current sensor (41, 42) on some phases powering said electric motor, a current sensor (21) on the power line, an input (52) for receiving information including at least one value of a limit current from the source and a required torque guideline, and a controller (5) driving the phase currents of the electric motor based on the torque guideline while maintaining the current in the power line at an acceptable value based on the limit current from the source. Accordingly, a maximal current can always be imposed on the current source without any risk of damaging same.

IPC 8 full level
B60L 15/10 (2006.01); **B60L 11/18** (2006.01)

CPC (source: EP US)
B60L 15/10 (2013.01 - EP US); **B60L 58/10** (2019.01 - EP US); Y02T 10/64 (2013.01 - EP US); Y02T 10/70 (2013.01 - EP US)

Citation (search report)
See references of WO 2011064095A2

Citation (examination)
• US 2009066281 A1 20090312 - WEST STEPHEN T [US], et al
• US 2005050965 A1 20050310 - ZAREMBA ALEXANDER T [US], et al
• DE 102008001714 A1 20091119 - BOSCH GMBH ROBERT [DE]

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)
FR 2953077 A1 20110527; **FR 2953077 B1 20130705**; CN 102753382 A 20121024; CN 102753382 B 20160706; EP 2504195 A2 20121003; JP 2013512647 A 20130411; US 2012249044 A1 20121004; US 8907612 B2 20141209; WO 2011064095 A2 20110603; WO 2011064095 A3 20110901

DOCDB simple family (application)
FR 0958404 A 20091126; CN 201080053491 A 20101110; EP 10781638 A 20101110; EP 2010067185 W 20101110; JP 2012540354 A 20101110; US 201013511309 A 20101110