

Title (en)
DEVICE FOR THE INDUCTIVE TRANSMISSION OF ELECTRIC POWER

Title (de)
VORRICHTUNG ZUR INDUKTIVEN ÜBERTRAGUNG ELEKTRISCHER ENERGIE

Title (fr)
PROCEDE DE TRANSMISSION INDUCTIVE D'ENERGIE ELECTRIQUE

Publication
EP 1495525 A2 20050112 (DE)

Application
EP 03702598 A 20030205

Priority
• DE 10215236 A 20020406
• EP 0301099 W 20030205

Abstract (en)
[origin: WO03085797A2] The invention relates to a device for the inductive transmission of electric power to a mobile consumer with a secondary inductivity that is mobile relative to a stationary primary inductivity and to which a rectifier and a switching regulator are connected downstream thereof to generate a first direct current of a defined value. In order to generate at least one additional direct current, the output (A, B) of the switching regulator is configured as a capacitive voltage divider (C21, C22) whose total voltage is the first direct voltage UL and at whose tap (E) the additional direct voltage UL2 is available. The tap (E) of the voltage divider (C21, C22) is linked with a leak-off (C) of the secondary inductivity (L11, L12) having the same division ratio via a diode (D2) whose anode is connected to the leak-off (C). In this manner, a stable, low output voltage can be additionally made available without much effort for the conversion of which to a low voltage a direct current converter having a correspondingly low transmission ratio is sufficient.

IPC 1-7
H02J 5/00

IPC 8 full level
H02J 5/00 (2006.01); **H02M 3/06** (2006.01); **H02M 3/28** (2006.01); **H02M 7/217** (2006.01); **H02P 27/06** (2006.01); **H02M 3/156** (2006.01)

CPC (source: EP KR US)
H01F 38/14 (2013.01 - KR); **H02J 50/005** (2020.01 - KR); **H02J 50/12** (2016.02 - EP KR US); **H02J 50/40** (2016.02 - KR); **H02M 3/06** (2013.01 - EP KR US); **H02M 3/156** (2013.01 - KR); **H02M 7/2176** (2013.01 - EP KR); **H02M 3/156** (2013.01 - EP)

Citation (search report)
See references of WO 03085797A2

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

DOCDB simple family (publication)
WO 03085797 A2 20031016; **WO 03085797 A3 20040205**; AU 2003205734 A1 20031020; CA 2481442 A1 20031016; CN 1647339 A 20050727; DE 10215236 C1 20031016; EP 1495525 A2 20050112; JP 2005522974 A 20050728; KR 20040101404 A 20041202; MX PA04009241 A 20050125

DOCDB simple family (application)
EP 0301099 W 20030205; AU 2003205734 A 20030205; CA 2481442 A 20030205; CN 03807631 A 20030205; DE 10215236 A 20020406; EP 03702598 A 20030205; JP 2003582873 A 20030205; KR 20047015928 A 20030205; MX PA04009241 A 20030205