

Title (en)  
METHOD AND DEVICE FOR POWER CONSUMPTION AND/OR POWER INPUT CONTROL IN AN ELECTRICAL POWER SUPPLY NETWORK

Title (de)  
VERFAHREN UND VORRICHTUNG ENERGIEVERBRAUCHS- UND/ODER ENERGIEEINSPEISESTEUERUNG IN EINEM ELEKTRISCHEN ENERGIEVERSORGUNGSNETZ

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE CONTRÔLE DE CONSOMMATION DE PUISSANCE ET/OU D'ENTRÉE DE PUISSANCE DANS UN RÉSEAU D'ALIMENTATION ÉLECTRIQUE

Publication  
**EP 4140009 A1 20230301 (DE)**

Application  
**EP 21719904 A 20210416**

Priority  
• DE 102020110649 A 20200420  
• EP 2021059975 W 20210416

Abstract (en)  
[origin: WO2021213937A1] The invention relates to a method for power consumption and power input control in an electrical power supply network, wherein a control signal with an item of tariff information is generated by a signal station at a power supply and unidirectionally output via the power supply network, wherein the control signal is received by at least one receiving unit arranged in the power consumption network and the control signal received by the receiving unit is used for operation control of a power output unit / power input unit for a downstream power consumer / power generator. A device for power consumption / power generation control comprises a receiving unit for a control signal transmitted via a power supply network with means for converting the control signal and for generating switching processes for a power output / power input unit controlled by the receiving unit for connecting a downstream consumer/generator.

IPC 8 full level  
**F25D 29/00** (2006.01); **H02J 3/14** (2006.01); **H02J 3/48** (2006.01); **H02J 5/00** (2006.01); **H02J 13/00** (2006.01); **H02M 3/335** (2006.01)

CPC (source: EP US)  
**H02J 3/003** (2020.01 - US); **H02J 3/14** (2013.01 - EP); **H02J 3/144** (2020.01 - US); **H02J 3/48** (2013.01 - EP); **H02J 5/00** (2013.01 - EP); **H02J 13/00004** (2020.01 - EP); **H02J 2310/14** (2020.01 - EP); **Y02B 70/30** (2013.01 - EP); **Y02B 70/3225** (2013.01 - EP); **Y04S 20/222** (2013.01 - EP); **Y04S 20/242** (2013.01 - EP)

Citation (search report)  
See references of WO 2021213937A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**DE 102020110649 A1 20211021**; CN 115428291 A 20221202; EP 4140009 A1 20230301; US 2023106367 A1 20230406; WO 2021213937 A1 20211028

DOCDB simple family (application)  
**DE 102020110649 A 20200420**; CN 202180029112 A 20210416; EP 2021059975 W 20210416; EP 21719904 A 20210416; US 202117909738 A 20210416