

Title (en)

METHOD AND SYSTEM FOR CONTROL AND POWER SUPPLY OF AT LEAST ONE ELECTRICAL CONSUMER

Title (de)

VERFAHREN UND SYSTEM ZUR ANSTEUERUNG UND ENERGIEVERSORGUNG VON MINDESTENS EINEM ELEKTRISCHEN VERBRAUCHER

Title (fr)

PROCÉDÉ ET SYSTÈME DE COMMANDE ET D'ALIMENTATION EN ÉNERGIE D'AU MOINS UN CONSOMMATEUR ÉLECTRIQUE

Publication

EP 2206412 A1 20100714 (DE)

Application

EP 08801869 A 20080905

Priority

- EP 2008007275 W 20080905
- DE 102007042508 A 20070907

Abstract (en)

[origin: WO2009033610A1] The invention relates to a method for controlling and supplying power to at least one electrical consumer (5) that is connectable in a wired, electrically conductive fashion to an energy source. In said method, electrical energy is transferred by means of an alternating voltage and control information for activating the at least one electrical consumer (5) is transmitted to the electrical consumer (5) by means of an angle modulation of the alternating voltage used for the power supply. The control information is transmitted in binary form by means of a frequency modulation, wherein individual binary values (1) are depicted and transmitted by an associated predetermined frequency of the alternating voltage used for the power supply. Each binary value (1) is transmitted by a plurality of oscillations of the alternating voltage. The invention further relates to a system for controlling and supplying power to at least one electrical consumer (5) that is connectable in a wired, electrically conductive fashion to an energy source by means of a cable, said system comprising a device for generating an alternating voltage (9) that is disposed between the energy source and the at least one electrical consumer (5) and a device for the angle modulation of the alternating voltage, and the electrical consumer (5) comprising a decoder (17).

IPC 8 full level

H05B 37/02 (2006.01)

CPC (source: EP US)

H05B 47/185 (2020.01 - EP US)

Citation (search report)

See references of WO 2009033610A1

Cited by

DE102014114150A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009033610 A1 20090319; CN 101849437 A 20100929; CN 101849437 B 20150506; DE 102007042508 A1 20090326; EP 2206412 A1 20100714; EP 2206412 B1 20130515; US 2011175459 A1 20110721; US 8436487 B2 20130507

DOCDB simple family (application)

EP 2008007275 W 20080905; CN 200880114927 A 20080905; DE 102007042508 A 20070907; EP 08801869 A 20080905; US 67645208 A 20080905