

Title (en)
METHOD OF CONTROLLING APPLIANCES AND SOURCES OF ELECTRICAL ENERGY IN THE DISTRIBUTION NETWORKS TO OPTIMIZE THE PRODUCTION AND CONSUMPTION OF ELECTRICAL ENERGY AND A SYSTEM FOR ITS IMPLEMENTATION.

Title (de)
VERFAHREN ZUR REGELUNG VON GERÄTEN UND QUELLEN VON ELEKTRISCHER ENERGIE IN VERTEILUNGSNETZWERKEN ZUR OPTIMIERUNG DER ERZEUGUNG UND DES VERBRAUCHS VON ELEKTRISCHER ENERGIE SOWIE SYSTEM ZU DESSEN UMSETZUNG

Title (fr)
PROCÉDÉ PERMETTANT DE COMMANDER DES APPAREILS ET DES SOURCES D'ÉNERGIE ÉLECTRIQUE DANS LES RÉSEAUX DE DISTRIBUTION AFIN D'OPTIMISER LA PRODUCTION ET LA CONSOMMATION D'ÉNERGIE ÉLECTRIQUE ET SYSTÈME POUR SA MISE EN UVRE

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Abstract (en)
[origin: WO2016206664A1] The invention relates to a method of controlling appliances and sources of electrical energy in distribution networks to optimize production and consumption of electrical energy, in which the consumption and/or production of electrical energy is controlled by at least one control node with control software, which is connected to a system for monitoring the distribution network and is also connected to the controlled electrical devices and to sources of electrical energy, whereby the controlled electrical devices are lifting devices (8). The current operational status and height of the loads of the individual lifting devices (8) in different parts of the distribution network is continuously monitored and according to the current status of the distribution network a corresponding number of individual lifting devices (8) - individually or in groups currently selected by the control node (1, 3, 4, 5, 6, 7) - is put specifically into a mode of controlled consumption or controlled generation of electrical energy, thereby reducing the fluctuations in the distribution network. The invention also relates to a system for optimizing electrical energy production and consumption, which comprises at least one control node with control software, wherein the control node is connected to a system for monitoring the distribution network and is also connected to a system of controlled electrical devices, which are connected to the distribution network, whereby the controlled electrical devices are lifting devices (8). The control node (1, 3, 4, 5, 6, 7) with the control software is provided with means for monitoring the status of each of the controlled lifting devices (8) and with means for controlled start-up of a selectable lifting device (8) or of formed groups of lifting devices (8) in a mode of consumption of energy or in a mode of generating electrical energy for the distribution network.

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