

Title (en)
DEVICE AND METHOD FOR OPERATING FUNCTIONAL UNITS ARRANGED IN A DECENTRALIZED MANNER

Title (de)
EINRICHTUNG UND VERFAHREN ZUM BETREIBEN VON DEZENTRAL ANGEORDNETEN FUNKTIONSEINHEITEN

Title (fr)
ÉQUIPEMENT ET PROCÉDÉ POUR FAIRE FONCTIONNER DES UNITÉS FONCTIONNELLES DÉCENTRALISÉES

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Abstract (en)
[origin: CA2917091A1] The invention relates to a device (E) and a method for operating decentralized functional units (DFE, EC) arranged in an industrial system, comprising: a) a higher-level control system (30) which exchanges information with the decentralized functional units (DFE) by means of data telegrams (DT), b) a data transport network (TN) with a number or network access points (2 to 16), said higher-level control system (30) being coupled to the data transport network (TN) via at least one network access point (2, 4); c) communication units (18 to 28) which are connected to a network access point (6 to 16) and provide the decentralized functional units with access to the data transport network (TN); d) an energy transport network to which the decentralized functional units (DFE) are connected and which supplies electric energy to the decentralized functional units (DFE); e) a number of intelligent energy stores which are connected to the energy transport network (ETN) and which consume energy and/or output energy in accordance with the higher-level control system and/or with at least one of the remaining energy stores, said energy transport network (ETN) having energy supply points (IEK) which are distributed along a bus structure of the energy transport network, wherein selectively one of at least two independent energy backbones can supply corresponding electric power to the supply points.

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