Title (en)

CLOSED-LOOP CONTROL DEVICE FOR CLOSED-LOOP CONTROL OF A POWER ASSEMBLY COMPRISING AN INTERNAL COMBUSTION ENGINE AND A GENERATOR HAVING AN OPERATIVE DRIVE CONNECTION TO THE INTERNAL COMBUSTION ENGINE, CLOSED-LOOP CONTROL ARRANGEMENT HAVING SUCH A CLOSED-LOOP CONTROL DEVICE, AND METHOD FOR CLOSED-LOOP CONTROL OF A POWER ASSEMBLY

Title (de)

REGELEINRICHTUNG ZUR REGELUNG EINER EINE BRENNKRAFTMASCHINE UND EINEN MIT DER BRENNKRAFTMASCHINE ANTRIEBSWIRKVERBUNDENEN GENERATOR UMFASSENDEN LEISTUNGSANORDNUNG, REGELANORDNUNG MIT EINER SOLCHEN REGELEINRICHTUNG, LEISTUNGSANORDNUNG UND VERFAHREN ZUR REGELUNG EINER LEISTUNGSANORDNUNG

Title (fr)

DISPOSITIF DE COMMANDE EN BOUCLE FERMÉE POUR LA COMMANDE EN BOUCLE FERMÉE D'UN ENSEMBLE D'ALIMENTATION COMPRENANT UN MOTEUR À COMBUSTION INTERNE ET UN GÉNÉRATEUR AYANT UN RACCORDEMENT D'ENTRAÎNEMENT FONCTIONNEL AU MOTEUR À COMBUSTION INTERNE, AGENCEMENT DE COMMANDE EN BOUCLE FERMÉE DOTÉ D'UN TEL DISPOSITIF DE COMMANDE EN BOUCLE FERMÉE, ET PROCÉDÉ DE COMMANDE EN BOUCLE FERMÉE D'UN ENSEMBLE D'ALIMENTATION

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Abstract (en)

[origin: WO2022268785A1] The invention relates to a closed-loop control device (3) for closed-loop control of a power assembly (1) comprising an internal combustion engine (5) and a generator (9) having an operative drive connection to the internal combustion engine (5), in which device: - the closed-loop control device (3) has a power controller (14) which is designed - to detect a generator power (PG) as a control variable, - to determine a power control deviation (eP), and - to identify a first specification variable (16) in accordance with the power control deviation (eP), - said closed-loop control device (3) also having a frequency controller (18) which is designed: - to detect a generator frequency ((fG as a control variable, - to determine a frequency control deviation (ef), and - to identify a second specification variable (20) in accordance with the frequency control deviation (ef), - said closed-loop control device (3) also having a preselection module (22) which is designed to identify a third specification variable (24), - said closed-loop control device (3) being designed to combine the first specification variable (16), the second specification variable (20) and the third specification variable (24) with one another to form a total specification variable (26), and - to use the total specification variable (26) for controlling the internal combustion engine (5).

IPC 8 full level

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