

Title (en)
ENERGY SUPPLY DEVICE AND CONSTRUCTION MACHINE

Title (de)
ENERGIEVERSORGUNGSVORRICHTUNG UND BAUMASCHINE

Title (fr)
DISPOSITIF D'ALIMENTATION EN ÉNERGIE ET MACHINE DE CONSTRUCTION

Publication
EP 4260426 A1 20231018 (DE)

Application
EP 21830648 A 20211206

Priority

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- EP 2021084359 W 20211206

Abstract (en)
[origin: WO2022122638A1] The invention relates to an energy supply device (100) for supplying electric loads (1, 2) with electric energy, comprising:
- a DC link (3); - a first mains connection (4) to which a first AC voltage grid (5) can be connected as intended; - a first rectifier (6) which is designed to rectify an AC voltage corresponding to an AC voltage across the first mains connection (4) or based thereon and to feed the rectified voltage into the DC link (3); - a second mains connection (7) to which a second AC voltage grid (8) can be connected as intended; - a second rectifier (9) which is designed to rectify an AC voltage corresponding to an AC voltage across the second mains connection (7) or based thereon; - a controllable DC-to-DC converter (10) to a first side of which a voltage rectified by means of the second rectifier (9) is applied, and a second side of which is connected to the DC link (3); - a first current converter (11) which is fed from the DC link (3) and is designed to supply a first electric load (2) with electric energy; - a power measuring apparatus (12) which is designed to measure electric power consumed at the first mains connection (4); and - a control apparatus (13) which has a data link to the power measuring apparatus (12) and which is designed to control the DC-DC converter (10) according to the electric power consumed at the first mains connection (4).

IPC 8 full level
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Citation (search report)
See references of WO 2022122638A1

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