Title (en)

RADIO FREQUENCY HEATING APPARATUS USING DIRECT-DIGITAL RADIO FREQUENCY POWER CONTROL AND FINE-TUNE POWER CONTROL

Title (de)

FUNKFREQUENZHEIZUNGSVORRICHTUNG MIT DIREKTER DIGITALER FUNKFREQUENZLEISTUNGSREGELUNG UND FEINABSTIMMUNGSLEISTUNGSREGELUNG

Title (fr)

APPAREIL DE CHAUFFAGE À RADIOFRÉQUENCE UTILISANT UNE COMMANDE DE PUISSANCE EN RADIOFRÉQUENCE NUMÉRIQUE DIRECTE ET UNE COMMANDE DE PUISSANCE DE RÉGLAGE DE PRÉCISION

Publication

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Application

EP 19823176 A 20190507

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Abstract (en)

[origin: WO2019245663A1] A radio frequency inductive heating apparatus includes a control device, a plurality of radio frequency devices, a plurality of transformers, a resonant tank circuit, a heating element, and a first power supply. The radio frequency devices are selectively activated by the control device, and each of the plurality of radio frequency devices is operatively coupled to of the plurality of transformers. At least one of the plurality of radio frequency devices are selectively activated by the control device based on a power set signal and a feedback signal, the power set signal representing a desired output current associated with the resonant tank circuit, the feedback signal representing an electrical control parameter associated with the resonant tank circuit. A corresponding method is also disclosed.

IPC 8 full level

H05B 6/02 (2006.01); **H05B 6/04** (2006.01); **H05B 6/06** (2006.01); **H05B 6/10** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2019245663A1

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