Title (en)

METHOD AND DEVICE FOR PRODUCING AN ELECTRICAL HEATING CURRENT, ESPECIALLY FOR INDUCTIVELY HEATING A WORKPIECE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ERZEUGEN EINES ELEKTRISCHEN HEIZSTROMS, INSBESONDERE ZUM INDUKTIVEN ERWÄRMEN EINES WERKSTÜCKS

Title (fr)

PROCEDE ET DISPOSITIF POUR PRODUIRE UN COURANT ELECTRIQUE DE CHAUFFAGE DESTINE NOTAMMENT AU CHAUFFAGE D'UNE PIECE PAR INDUCTION

Publication

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Application

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Abstract (en)

[origin: WO2005081585A1] According to the invention, a heating current that is especially used to inductively heat a metallic or magnetic workpiece is generated by means of an inverter, from an input-side supply voltage. Said inverter has four controllable switching elements (S_P1, S_P2, S_N1, S_N2) that are arranged in relation to each other in an H-bridge circuit having two parallel longitudinal branches (42, 44) and a transversal branch (46). The respectively diagonally opposed switching elements (S_P1, S_P2; S_N1, S_N2) of the bridge circuit are controlled in such a way that the heating flow flows through the transversal branch (46). According to one embodiment of the invention, the diagonally opposed switching elements (S_P1, S_P2; S_N1, S_N2) are switched from the conductive state to the non-conductive state in a temporally staggered manner.

IPC 8 full level

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