

Title (en)
CONTROL DEVICE FOR INDUCTION HEATING UNITS

Title (de)
STEUERUNGSVORRICHTUNG FÜR INDUKTIONSHEIZEINHEITEN

Title (fr)
DISPOSITIF DE COMMANDE POUR UNITÉS DE CHAUFFAGE PAR INDUCTION

Publication
EP 2890217 B1 20200108 (EN)

Application
EP 12883809 A 20120827

Priority
JP 2012071565 W 20120827

Abstract (en)
[origin: EP2890217A1] Provided is a control device for induction heating units which is capable of individually controlling amounts of temperature rise in one side portion and the other side portion of a material to be heated while preventing the occurrence of an abnormal mutual induction phenomenon between two induction heating units. To this end, the control device includes: a master frequency control part that sets an operation frequency of a master inverter, which drives a master C-shaped induction heating unit provided on one side of a material to be heated, so that a phase of an output voltage and a phase of an output current from the master inverter are synchronized; a slave frequency control part that synchronizes an operation frequency of a slave inverter, which drives a slave C-shaped induction heating unit provided on the other side of the material to be heated, with the operation frequency of the master inverter; a slave current phase control part that synchronizes a phase of an output current from the slave inverter with the phase of the output current from the master inverter; a master voltage control part which sets a pulse width of the output voltage from the master inverter; and a slave voltage control part which sets a pulse width of an output voltage from the slave inverter.

IPC 8 full level
H05B 6/06 (2006.01); **H05B 6/10** (2006.01); **H05B 6/14** (2006.01)

CPC (source: EP KR)
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