

Title (en)

ELECTROMAGNETIC INDUCTION HEATER AND OPERATION METHOD THEREFOR

Title (de)

ELEKTROMAGNETISCHES INDUKTIONSHEIZGERÄT UND SEINES BETRIEBSVERFAHREN

Title (fr)

DISPOSITIF DE CHAUFFAGE PAR INDUCTION ELECTROMAGNETIQUE ET SON FONCTIONNEMENT

Publication

EP 0873045 A4 19981230 (EN)

Application

EP 96925966 A 19960731

Priority

- JP 9602166 W 19960731
- JP 21974595 A 19950803

Abstract (en)

[origin: WO9706652A1] An electromagnetic induction heater which is provided with a silicon nitride pipe (6 or 41) of a non-magnetic material through which a liquid flows in and out, a coil (7) wound around the silicon nitride pipe (6 or 41), and a heating body (8) accommodated in the silicon nitride pipe (6 or 41) and heated by electromagnetic induction by the coil (7), and which has flange members (2, 3) so formed at both ends of the silicon nitride pipe (6 or 41) as to engage with the end portions of the silicon nitride pipe (6 or 41) and to protrude outward in a radial direction, metal pipes (101, 102) having flanges (103, 104) and connected to both ends of the silicon nitride pipe (6 or 41), and fastening members (9, 10) for fastening the flange members (2, 3) at both ends of the silicon nitride pipe (6 or 41) to the flanges (103, 104) of the metal pipes (101, 102), respectively. The operation method comprises bringing the inside of the pipe into the immersed state by a fluid before the fluid is passed through the pipe, preheating the heating body (8) inside the pipe by electromagnetic induction, and allowing the fluid to flow.

IPC 1-7

H05B 6/10; **H05B 6/02**

IPC 8 full level

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

CPC (source: EP KR)

H05B 6/10 (2013.01 - KR); **H05B 6/108** (2013.01 - EP)

Citation (search report)

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- [A] US 5186910 A 19930216 - ALAGY JACQUES [FR], et al
- [Y] PATENT ABSTRACTS OF JAPAN vol. 010, no. 148 (C - 350) 29 May 1986 (1986-05-29)
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- See references of WO 9706652A1

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