

Title (en)  
INDUCTION PLASMA FURNACE.

Title (de)  
INDUKTIONSPLASMAOFEN.

Title (fr)  
FOUR A PLASMA A FONCTIONNEMENT PAR INDUCTION.

Publication  
**EP 0269735 A4 19880928 (DE)**

Application  
**EP 86904984 A 19860529**

Priority  
SU 8600049 W 19860529

Abstract (en)  
[origin: WO8707468A1] An induction plasma furnace comprises a refractory crucible (1) embraced by an inductor (2), a plasmatron (3) mounted above the crucible (1) and connected to a power source (4) and a hearth electrode (5) mounted in the bottom of the crucible (1) and connected to the power source (4) of the plasmatron (3) through a switching device (6). The upper part of the crucible (1) consists of a cooled metallic ring (8) electrically connected to the switching device (6).

IPC 1-7  
**H05B 11/00**

IPC 8 full level  
**H05B 6/24** (2006.01); **F27B 3/08** (2006.01); **F27B 14/06** (2006.01); **H05B 7/00** (2006.01); **H05B 7/02** (2006.01); **H05B 7/18** (2006.01); **H05B 11/00** (2006.01)

CPC (source: EP)  
**H05B 7/00** (2013.01); **H05B 11/00** (2013.01)

Citation (search report)  
• [A] FR 2362936 A1 19780324 - TETRONICS RES & DEV CO LTD [GB], et al  
• [A] FR 2197988 A1 19740329 - NIPKTI PO CHERNA METALURGIA [BG]  
• See references of WO 8707468A1

Cited by  
CN103353235A

Designated contracting state (EPC)  
AT DE GB IT SE

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DOCDB simple family (application)  
**SU 8600049 W 19860529**; EP 86904984 A 19860529; JP 50426386 A 19860529