

Title (en)

INDUCTIVE HEATING APPARATUS AND PROCESS INDUCTIVE HEATING APPARATUS AND PROCESS

Publication

EP 0209339 A3 19880608 (EN)

Application

EP 86305379 A 19860714

Priority

AU 150085 A 19850716

Abstract (en)

[origin: EP0209339A2] An inductive heating apparatus comprising an induction furnace (1) and induction heating coil (10) embedded within a refractory block (6) of cylindrical form and a metal susceptor sleeve (7) arranged with a clearance in the bore of the refractory block (6). The susceptor sleeve extends below the bottom of the refractory block (6) and is supported in a metal support collar (8). A cylindrical canister (4) is positioned inside the refractory block (6) and is supported on a movable lower refractory pressure pad (3) located on top of a water cooled hydraulic ram (5). An upper refractory pressure pad (2) is provided above the cylindrical canister (6) and serves as an abutment means when the lower refractory pressure pad (3) and cylindrical canister (4) thereon are moved upward. The induction heating coil (10) may also have a number of tapings (A, B, C) for progressively increasing the length of the heating zone.

IPC 1-7

H05B 6/02; **G21F 9/34**; **F27D 11/06**

IPC 8 full level

G21F 9/34 (2006.01); **H05B 6/02** (2006.01); **H05B 6/10** (2006.01)

CPC (source: EP)

G21F 9/34 (2013.01); **H05B 6/105** (2013.01)

Citation (search report)

- EP 0044692 A2 19820127 - ATOMIC ENERGY OF AUSTRALIA [AU], et al
- EP 0102246 A1 19840307 - ATOMIC ENERGY OF AUSTRALIA [AU], et al
- DE 1012400 B 19570718 - BBC BROWN BOVERI & CIE

Cited by

GB2264586A; GB2264586B; US5414208A; US7745764B2; WO2007067365A3; WO9207364A1

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