

Title (en)  
FURNACE ARRANGEMENT TO SMELT METAL AND TO KEEP IT HEATED

Publication  
**EP 0106792 B1 19880601 (DE)**

Application  
**EP 83710070 A 19831007**

Priority  
• SE 8205898 A 19821018  
• SE 8303419 A 19830615

Abstract (en)  
[origin: ES8406707A1] A furnace for melting and melt-heat retaining of metals has two horizontal interspaced furnace vessels which form a melt chamber and each having a side wall facing the side wall of the other furnace vessel, each side wall having an opening horizontally aligned with the opening of the side wall of the other furnace vessel. A single inductor is positioned between these side walls and is formed by an integral block of ceramic having opposite ends abutting the outside of the side walls. The block has a transverse through-hole and two longitudinal through-holes straddling the transverse through-hole and open to the two furnace vessels so that they intercommunicate. The inductor has a core with an energizing coil and having a leg extending through the transverse hole. When the energizing coil is powered a melt in the two longitudinal through-holes is heated by an induced circuit which extends into and through melts in the two furnace vessels. When required, the inductor can be shut down and the melt heat-retaining is effected because the furnace vessels have roofs mounting electric resistance heaters of low power which can be operated at that time.

IPC 1-7  
**F27D 11/00**; **F27B 14/00**; **H05B 6/20**

IPC 8 full level  
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CPC (source: EP US)  
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