

Title (en)

Electric-arc furnace structure and method for heating refractory materials.

Title (de)

Aufbau eines Elektrolichtbogenofens und Verfahren zum Brennen feuerfester Materialien.

Title (fr)

Structure de four électrique à arc et procédé pour le chauffage de matériaux réfractaires.

Publication

EP 0036049 A1 19810923 (EN)

Application

EP 80300807 A 19800317

Priority

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Abstract (en)

A furnace construction capable of withstanding temperatures in excess of 1927 DEG C, has carbon walls forming a furnace chamber is provided with an open bottom which in use is closed by a refractory raw material (70) in a container (68) and sealed by a skirt member (60) which is attached directly to the superstructure of the furnace and penetrates the refractory material 70. The furnace chamber walls are insulated with charred paper 62. Heat generated by an arc struck between electrodes 17, 18 fuses an ingot from the refractory material 70.

IPC 1-7

F27B 3/08; **F27D 1/00**; **F27B 3/06**

IPC 8 full level

F27B 3/08 (2006.01); **F27B 17/00** (2006.01); **F27D 1/00** (2006.01); **F27B 11/00** (2006.01); **F27D 3/00** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP)

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Citation (search report)

- GB 1384549 A 19750219 - AIR PROD LTD
- US 2026370 A 19351231 - FRITZ WINKLER
- DE 2853397 A1 19790621 - KUREHA CHEMICAL IND CO LTD
- FR 555648 A 19230703
- CH 205077 A 19390531 - AMERICAN MAGNESIUM METALS CORP [US]
- US 4080508 A 19780321 - GREENEWALD JR HERBERT

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