

Title (en)
Cooled crown for electric furnaces.

Title (de)
Gekühlter Deckel für Elektroöfen.

Title (fr)
Couvercle refroidi pour fours électriques.

Publication
EP 0063549 A1 19821027 (EN)

Application
EP 82830070 A 19820324

Priority
IT 8336081 A 19810414

Abstract (en)
This invention concerns a cooled crown (20) for electric furnaces which consists of a plurality of tubular elements and comprises in mutual cooperation and coordination: - a carrying structure (21) consisting of at least one outer, tubular, perimetric element (24) and of an inner, tubular element (25), whereby the two elements (24-25) are connected hydraulically to each other by appropriate tubular risers (46), - a plurality of panels (22) to cool the crown, whereby said cooling panels (22) consist substantially of two primary manifolds (26-27) and of a plurality of tubes (28), - a cap (23) consisting of supporting means which circulate fluid (50), - and a possible cooling coil (33) which cooperates with the inner tubular element (25).

IPC 1-7
F27D 1/18

IPC 8 full level
F27D 1/18 (2006.01)

CPC (source: EP)
F27D 1/1816 (2013.01)

Citation (search report)
• [X] FR 2455719 A1 19801128 - SIDEPAL SA [LU]
• [Y] FR 2404818 A1 19790427 - DEMAG AG [DE]
• [Y] DE 937442 C 19560105 - DEMAG ELEKTROMETALLURGIE GMBH
• [A] FR 2424498 A1 19791123 - KRUPP AG HUETTENWERKE [DE]
• [A] US 3967048 A 19760629 - LONGENECKER LEVI S
• [A] DE 2805263 A1 19780817 - DAIDO STEEL CO LTD
• [A] US 3429973 A 19690225 - CARTER FREDERICK H N, et al
• [AD] US 4216348 A 19800805 - GREENBERGER JOSEPH I [US]

Cited by
EP0790474A1

Designated contracting state (EPC)
AT BE DE FR GB SE

DOCDB simple family (publication)
EP 0063549 A1 19821027; EP 0063549 B1 19850828; AT E15264 T1 19850915; DE 3265733 D1 19851003; ES 511361 A0 19830301; ES 8303670 A1 19830301; GR 76696 B 19840828; IT 1146768 B 19861119; IT 8183360 A0 19810414

DOCDB simple family (application)
EP 82830070 A 19820324; AT 82830070 T 19820324; DE 3265733 T 19820324; ES 511361 A 19820410; GR 820167775 A 19820331; IT 8336081 A 19810414