

Title (en)
Cooling panel for electric arc furnaces.

Title (de)
Kühlelement für Lichtbogenschmelzöfen.

Title (fr)
Élément de refroidissement pour un four à arc.

Publication
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Application
EP 80830091 A 19801031

Priority
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Abstract (en)
This invention concerns a cooling plate for electric arc furnaces either for obtaining the ring situated higher than the bath or for obtaining the furnace cover, whereby the inner side may comprise supports and anchorage means for the refractory material and inlet and outlet attachments for the cooling liquid, the panel being obtained with any desired thick plate cut to a desired, preferential profile (21-22-27), and a coordinated plurality of channels (29-30-32-37) substantially contained within the thickness of said plate being obtained by processing with a tool, whereby the plate is shaped as wished and consists of any desired, but advantageously metallic, material.

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F27B 3/24; **F27D 1/12**

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CPC (source: EP)
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Citation (search report)

- US 2396976 A 19460319 - WHITEHURST GEORGE A
- US 3339904 A 19670905 - RICHARDS EDWIN R
- FR 2411380 A1 19790706 - SANYO SPECIAL STEEL CO LTD [JP]
- DE 2907511 A1 19800911 - KABEL METALLWERKE GHH, et al
- US 3940552 A 19760224 - MIZUNO SUSUMU

Cited by
EP0085462A1; EP0705906A1; FR2775695A1; EP0930371A1; DE3936467A1; GB2176883A; EP3139120A1; ITUB20153270A1; DE19545984A1; DE19545984B4; DE3603783A1; FR2489491A1; FR2891981A1; NO343580B1; FR2528554A1; US2016161185A1; US10168100B2; WO03089863A1; WO2018013271A1

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