

Title (en)
Cooling plate for shaft furnaces

Title (de)
Kühlplatte für Schachtofen

Title (fr)
Plaque de refroidissement pour fours à cuve

Publication
EP 0705906 B1 20000126 (DE)

Application
EP 94115821 A 19941007

Priority
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Abstract (en)
[origin: EP0705906A1] Cooling plate for a shaft furnace, esp. a blast furnace, equipped with a fireproof lining, consists of copper or a low-alloyed copper alloy and has cooling channels within it. The cooling plate is made from a cast or rolled ingot and the cooling channels are vertical blind bores. The plate is novel in that additional vertical and horizontal blind bores (13,14) of smaller dia than the main bores (3) are provided in the edge regions of the plate.

IPC 1-7
C21B 7/10

IPC 8 full level
C21B 7/10 (2006.01)

CPC (source: EP KR US)
C21B 7/10 (2013.01 - EP KR US)

Cited by
EP0837144A1; DE19545984A1; DE19545984B4; EP0741190A1; US5678806A; EP0816515A1; US5904893A; DE19545048A1; DE19545048C2; DE19727008C1; EP0887428A1; US6132673A; DE19727008C2; EA009005B1; US7537724B2

Designated contracting state (EPC)
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EP 94115821 A 19941007; AT 94115821 T 19941007; BR 9504314 A 19951006; CA 2159964 A 19951005; DE 59409106 T 19941007; JP 28428395 A 19950927; KR 19950034105 A 19951005; MX 9504260 A 19951006; US 54006195 A 19951221