

Title (en)  
Stove cooler for shaft furnaces

Title (de)  
Kühlplatte für Schachtöfen

Title (fr)  
Plaque de refroidissement pour fours à cuve

Publication  
**EP 0731180 B1 19990616 (DE)**

Application  
**EP 95117747 A 19951110**

Priority  
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Abstract (en)  
[origin: US5676908A] The present invention concerns a plate (1) for cooling a blast furnace and forged or rolled out of a blank of copper or mainly-copper alloy. Vertical bores (3) extend into the plate. A detachable furnace-cooling component (4) with vertical bores (5) and horizontal bores (6) extending into it is attached to the top or bottom of the plate. Coolant is pumped into and out of the bores in the furnace-cooling component through sections (2) of pipe and into and out of the bores in the plate through other sections (2) of pipe. Both cooling systems communicate with the furnace's cooling system by way of the pipe sections (2), which extend through the furnace plating (10).

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**C21B 7/10**; **F27B 1/24**

IPC 8 full level  
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**US 5676908 A 19971014**; AT E181368 T1 19990715; AU 4201896 A 19960815; AU 713079 B2 19991125; BR 9600246 A 19980127; CA 2168936 A1 19960808; CN 1051577 C 20000419; CN 1133890 A 19961023; DE 19503912 A1 19960808; DE 19503912 C2 19970206; DE 59506237 D1 19990722; EP 0731180 A1 19960911; EP 0731180 B1 19990616; GE P20002037 B 20000410; JP 3855133 B2 20061206; JP H08246012 A 19960924; KR 100386546 B1 20030809; KR 960031628 A 19960917; MX 9600492 A 19970131; RU 2144570 C1 20000120; UA 42725 C2 20011115; ZA 96418 B 19960725

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