

Title (en)

Cooling plate for metallurgical furnaces of the iron and steel industry

Title (de)

Kühlplatte für metallurgische Öfen der Eisen- und Stahlindustrie

Title (fr)

Plaque de refroidissement pour fours métallurgiques de l'industrie sidérurgique

Publication

EP 0816515 B1 20020925 (DE)

Application

EP 97110960 A 19970702

Priority

DE 29611704 U 19960705

Abstract (en)

[origin: CA2209682A1] The invention pertains to a plate cooler for blast furnaces, direct reduction reactors and gassing units provided with a refractory lining, as used in the iron and steel industry, said cooler consisting of cast copper or a low-alloyed copper alloy with coolant ducts arranged in its interior. Prefabricated coolant ducts consisting either of copper pipe attachment sections (2), copper pipelines (3) and copper pipe bends (4) or of bent copper pipes, are integrally cast in the plate cooler (1). The wall (5) of the plate cooler (1) facing the interior of the furnace is provided with webs (7) and grooves (8) or has a flat surface (9). The plate cooler (1) may be provided with bilateral vertical and/or bilateral horizontal side flanges.

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IPC 8 full level

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Cited by

DE102015001190A1; EP1826518A1; NL1011838C2; DE102015001190B4; AT519400A1; AT519400B1; WO0045978A1; WO0063446A1; WO2016119770A1; US8080116B2

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