

Title (en)  
COOLING SYSTEM FOR A METALLURGICAL SMELTING FURNACE

Title (de)  
KÜHLSYSTEM FÜR EINEN METALLURGISCHEN SCHMELZOFEN

Title (fr)  
SYSTEME DE REFROIDISSEMENT DESTINE A UN FOUR DE FUSION METALLURGIQUE

Publication  
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Application  
**EP 01270626 A 20011211**

Priority

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Abstract (en)  
[origin: WO0248406A1] The invention relates to a cooling system for a metallurgical smelting furnace, containing a cooling element (16i; i=1, 2, 3, 4) which is integrated into a wall in the metallurgical smelting furnace and which contains at least one internal cooling refrigerating channel (18i; i=1, 2, 3, 4). A predetermined cool water volume flow (Qi; i=1, 2, 3, 4) passes through said channel, guaranteeing the required cooling performance. The cooling system is embodied in such a way that a static absolute pressure which is less than the atmospheric pressure at the place of installation of the metallurgical smelting furnace is produced in the greater part of the at least one internal cooling channel (18i; i=1, 2, 3, 4) of said predetermined cooling water flow (Qi; i=1, 2, 3, 4). A preliminarily container (24) for cooling water is arranged at a higher position than the cooling element(s) (16i; i=1, 2, 3, 4) so that the geodesic superrelevation thereof determines the rest pressure in the cooling circuit.

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