

Title (en)
Cooling element assembly

Title (de)
Kühlelementanordnung

Title (fr)
Agencement d'élément de refroidissement

Publication
EP 2733225 B1 20170222 (DE)

Application
EP 12007726 A 20121115

Priority
EP 12007726 A 20121115

Abstract (en)
[origin: EP2733225A1] Cooling element arrangement for metallurgical furnaces comprises a cooling plate (6), which is arranged on a metal wall (2) of the furnace, (ii) a coolant connection (8, 9), (iii) a pre-configured opening (11, 12), and (iv) a coating, which is attached at the cooling plate in a form-fitting manner. The hot sides (4) of the cooling plate face the inner side of the furnace. The cold sides of the cooling plate face the wall of the furnace. The cooling plate has the coolant connections respectively in at least one inner lying coolant channel, and the pre-configured openings. Cooling element arrangement for metallurgical furnaces comprises a cooling plate (6), which is arranged on a metal wall (2) of the furnace, (ii) a coolant connection (8, 9), (iii) a pre-configured opening (11, 12), and (iv) a coating, which is attached at the cooling plate in a form-fitting manner. The hot sides (4) of the cooling plate face the inner side of the furnace. The cold sides of the cooling plate face the wall of the furnace. The cooling plate has the coolant connections respectively in at least one inner lying coolant channel, and the pre-configured openings. A cylindrical cooling bar is detachably integrated into the openings. The cooling bars project in the installed position in the direction to the inner side of the furnace via the hot sides of the cooling plates. The coating is either a preconfigured slag forming layer or a pre-configured wear-resistant layer. The cooling bars are introduced into the coating.

IPC 8 full level
C21B 7/10 (2006.01); **F27B 1/24** (2006.01); **F27B 3/24** (2006.01); **F27D 1/12** (2006.01)

CPC (source: EP)
C21B 7/10 (2013.01); **C21C 5/4646** (2013.01); **F27B 1/24** (2013.01); **F27D 1/12** (2013.01)

Cited by
CN114622045A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2733225 A1 20140521; EP 2733225 B1 20170222

DOCDB simple family (application)
EP 12007726 A 20121115