

Title (en)
BULK MATERIAL COOLER FOR COOLING HOT MATERIALS TO BE COOLED

Title (de)
SCHÜTTGUTKÜHLER ZUM KÜHLEN VON HEISSEM KÜHLGUT

Title (fr)
REFROIDISSEUR SERVANT A REFROIDIR UNE MATIERE EN VRAC CHAUDE

Publication
EP 1695015 B1 20070418 (DE)

Application
EP 04819217 A 20041125

Priority
• EP 2004013367 W 20041125
• DE 10355822 A 20031128

Abstract (en)
[origin: WO2005052482A1] The invention aims at providing a bulk material cooler particularly for hot cement clinker, wherein the conveyance performance and the efficiency of the cooler are enhanced and problems due to wear are reduced. According to the invention, the cooling grates of several adjacent, elongated bottom elements (10 to 12) extending in longitudinal direction of the cooler are put together, said bottom elements being movably controlled independently of one another between a work clearance stroke position (13) in the direction of conveyance of the material to be cooled and a return stroke position (14) in such a way that the material to be cooled (15) is gradually conveyed through the cooler according to the walking floor transport system, wherein the bottom elements (10 to 12) are configured as hollow bodies and enable the cold air (16) to go through yet prevent grate sifting of the material to be cooled.

IPC 8 full level
F27D 15/02 (2006.01)

CPC (source: EP US)
F27D 15/0213 (2013.01 - EP US); **F28C 3/16** (2013.01 - EP US)

Cited by
DE102019121870A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005052482 A1 20050609; AT E360181 T1 20070515; BR PI0417019 A 20070313; CA 2546587 A1 20050609; CA 2546587 C 20130108; CN 100465566 C 20090304; CN 1902452 A 20070124; CY 1106725 T1 20120125; DE 10355822 A1 20050728; DE 10355822 B4 20130613; DE 502004003574 D1 20070531; DK 1695015 T3 20070917; EP 1695015 A1 20060830; EP 1695015 B1 20070418; ES 2285571 T3 20071116; JP 2007515365 A 20070614; JP 5133565 B2 20130130; NO 20062989 L 20060627; PL 1695015 T3 20070928; PT 1695015 E 20070704; RU 2006122936 A 20080110; RU 2352884 C2 20090420; US 2007128565 A1 20070607; US 7484957 B2 20090203

DOCDB simple family (application)
EP 2004013367 W 20041125; AT 04819217 T 20041125; BR PI0417019 A 20041125; CA 2546587 A 20041125; CN 200480039246 A 20041125; CY 071100929 T 20070713; DE 10355822 A 20031128; DE 502004003574 T 20041125; DK 04819217 T 20041125; EP 04819217 A 20041125; ES 04819217 T 20041125; JP 2006540378 A 20041125; NO 20062989 A 20060627; PL 04819217 T 20041125; PT 04819217 T 20041125; RU 2006122936 A 20041125; US 57935804 A 20041125