

Title (en)  
GRATE PLATE FOR A GRATE COOLER

Title (de)  
ROSTPLATTE FÜR EINEN ROSTKÜHLER

Title (fr)  
PLAQUE DE GRILLE POUR REFROIDISSEUR À GRILLES

Publication  
**EP 3384221 B1 20200101 (DE)**

Application  
**EP 16801210 A 20161124**

Priority  
• DE 102015015632 A 20151203  
• EP 2016078659 W 20161124

Abstract (en)  
[origin: WO2017093111A1] The invention relates to a grate plate (1) for use in a grate cooler for hot bulk material, comprising a first working region (2) which is alternatingly covered by a further grate plate (1) during use of the grate plate (1) in a grate cooler, and which has at least one bag (5) for holding bulk material as an autogenous wear protection layer, and comprising a second working region (3) which is not covered by a further grate plate (1) during use of the grate plate (1), and which has at least one bag (5) for holding bulk material as an autogenous wear protection layer and having at least one opening (6) leading to the underside of the grate plate (1) for the introduction of cooling air. According to the invention, the height (8) of the bags (5) in the covering region (2) is smaller than the height (7) of the bags (5) in the covering-free region (3), and the base of the bags (5) in the covering region (2) is respectively formed by multiple segments (9), the surfaces of which function as contact surfaces for bulk material and between which gap-like cooling air channels (10) are formed, wherein the openings of the cooling air channels (10) provided between the upper sides of the segments (9) are each oriented at a certain angle to the vertical, such that a respective acute angle occurs between the conveying direction and the direction of the cooling air flow via these openings.

IPC 8 full level  
**F27D 15/02** (2006.01)

CPC (source: EP US)  
**F27D 15/0213** (2013.01 - EP US); **F27D 15/022** (2013.01 - EP US); **F27D 2015/0233** (2013.01 - US)

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)  
**WO 2017093111 A1 20170608**; CN 108291777 A 20180717; CN 108291777 B 20191220; DE 102015015632 A1 20170608;  
DE 102015015632 B4 20171207; DK 3384221 T3 20200323; EP 3384221 A1 20181010; EP 3384221 B1 20200101; ES 2781466 T3 20200902;  
US 2018363985 A1 20181220

DOCDB simple family (application)  
**EP 2016078659 W 20161124**; CN 201680070258 A 20161124; DE 102015015632 A 20151203; DK 16801210 T 20161124;  
EP 16801210 A 20161124; ES 16801210 T 20161124; US 201615778700 A 20161124