

Title (en)  
GRATE PLATE FOR COOLER

Title (de)  
KÜHLERROSTPLATTE

Title (fr)  
PLAQUE DE GRILLE POUR REFROIDISSEUR

Publication  
**EP 1060356 B1 20020612 (FR)**

Application  
**EP 99906231 A 19990209**

Priority  
• BE 9800143 A 19980224  
• EP 9900935 W 19990209

Abstract (en)  
[origin: WO9944001A1] The invention concerns a plate globally shaped like an upturned caisson with a bearing surface (10) for supporting and driving forward a bulk material layer to be cooled with a cooling gas passing through the plate. The plate front part (10b), viewed in the material forward motion direction, is formed with overlapping flanges (14) sloping upwards and defining transverse cavities (20) in the bearing surface and the overlapping parts of two adjacent flanges (14) defining narrow channels (22) for the cooling gas to pass through.

IPC 1-7  
**F27D 15/02**

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

CPC (source: EP US)  
**F27D 15/022** (2013.01 - EP US)

Cited by  
WO2011151130A1; US9677816B2

Designated contracting state (EPC)  
BE DE ES FR GB GR IT PT

DOCDB simple family (publication)  
**WO 9944001 A1 19990902**; AU 2623699 A 19990915; BE 1011760 A3 19991207; BR 9907685 A 20001114; DE 69901801 D1 20020718; DE 69901801 T2 20030109; EP 1060356 A1 20001220; EP 1060356 B1 20020612; ES 2177241 T3 20021201; ID 28084 A 20010503; PT 1060356 E 20021031; TR 200002208 T2 20001221; US 6290493 B1 20010918

DOCDB simple family (application)  
**EP 9900935 W 19990209**; AU 2623699 A 19990209; BE 9800143 A 19980224; BR 9907685 A 19990209; DE 69901801 T 19990209; EP 99906231 A 19990209; ES 99906231 T 19990209; ID 20001912 A 19990209; PT 99906231 T 19990209; TR 200002208 T 19990209; US 62275200 A 20001010