

Title (en)
PROTECTION SHIELD FOR CHARGING SYSTEM

Title (de)
SCHUTZSCHILD FÜR EIN LADESYSTEM

Title (fr)
BLINDAGE DE PROTECTION POUR SYSTÈME DE CHARGEMENT

Publication
EP 2536856 A1 20121226 (EN)

Application
EP 11705671 A 20110215

Priority
• GB 201002432 A 20100215
• GB 2011050287 W 20110215

Abstract (en)
[origin: GB2477779A] A shielding device for a furnace charging system having a movable chute 104 within a housing aperture 110, the device comprising a plurality of blades 108 arranged so that at any point in the chute movement at least one blade spans a portion of the space between the chute and housing. The blades are mounted parallel as annular rings around a frustro-conical shield 106, and their outer edges trace a spheroid profile as the chute moves. The blades are less likely to distort compared to a spherical shield, but can flex if they contact housing 102. In other embodiments the blades can be angled, radial, mounted on the housing 102, or formed from corrugations of the shield 106. Space between blades may contain heat resistant packing, such as ceramic wool. A nitrogen cooling curtain may also purge dust. The furnace may be a blast furnace.

IPC 8 full level
C21B 7/20 (2006.01); **F27B 1/20** (2006.01); **F27D 3/10** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP GB)
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Cited by
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DOCDB simple family (publication)
GB 201002432 D0 20100331; **GB 2477779 A 20110817**; BR 112012020290 A2 20160503; CN 102762747 A 20121031; CN 102762747 B 20140219; EA 021955 B1 20151030; EA 201290796 A1 20130228; EP 2536856 A1 20121226; EP 2536856 B1 20140402; WO 2011098841 A1 20110818

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