

Title (en)  
Cooler with two layers of charge

Title (de)  
Zweischichtkühler

Title (fr)  
Refroidisseur à deux couches de charge

Publication  
**EP 0686819 B1 19990127 (DE)**

Application  
**EP 95105648 A 19950413**

Priority  
DE 4419728 A 19940606

Abstract (en)  
[origin: US5568734A] Bulk material cooling comprises includes a conveyor having a support surface for transporting bulk material from the conveyor inlet to its outlet. A first material supply chute is provided at the inlet for depositing a quantity of relatively cool material on the conveyor. A baffle is located downstream of the supply chute for leveling the material on the conveyor and forming a uniform thickness layer of such material. A second material supply chute is arranged downstream of the baffle for depositing a layer of relatively hot material atop the first layer. The first layer of material protects the conveyor from the heat of the second layer. Cooling air is passed upwardly through the first and second layer to cool the material.

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

IPC 8 full level  
**F25D 1/00** (2006.01); **F27D 15/02** (2006.01)

CPC (source: EP KR US)  
**F25D 13/06** (2013.01 - KR); **F27D 15/0213** (2013.01 - EP US)

Cited by  
DE10113516A1; DE19649921A1; CN106500422A

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI NL PT SE

DOCDB simple family (publication)  
**US 5568734 A 19961029**; AT E176314 T1 19990215; BR 9502636 A 19960109; DE 4419728 A1 19951207; DE 59504954 D1 19990311; DK 0686819 T3 19990913; EP 0686819 A1 19951213; EP 0686819 B1 19990127; ES 2128605 T3 19990516; GR 3029818 T3 19990630; JP H07332827 A 19951222; KR 960001693 A 19960125; TR 28613 A 19961114; TW 266258 B 19951221; ZA 953375 B 19960112

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**US 44456995 A 19950519**; AT 95105648 T 19950413; BR 9502636 A 19950602; DE 4419728 A 19940606; DE 59504954 T 19950413; DK 95105648 T 19950413; EP 95105648 A 19950413; ES 95105648 T 19950413; GR 990400908 T 19990330; JP 11832695 A 19950517; KR 19950012651 A 19950520; TR 66995 A 19950605; TW 84104122 A 19950426; ZA 953375 A 19950426