

Title (en)  
METHOD AND APPARATUS FOR HANDLING PARTICULATE MATERIAL

Publication  
**EP 0196105 A3 19880330 (EN)**

Application  
**EP 86104271 A 19860327**

Priority  
• CA 477953 A 19850329  
• US 82620086 A 19860205

Abstract (en)  
[origin: EP0196105A2] Apparatus and method for containing and feeding particulate material tending to pack into a mass from an elongated hopper having opposed sloping walls converging downward and inward towards each other to terminal margins presenting between them an elongated laterally restricted outlet for directing material onto a conveyor below. Gates are provided to close the outlet for containing the material and to open the outlet to discharge it onto the conveyor belt. Baffles within the hopper are provided to divide the cargo at a level spaced above the outlet into several piles which merge above and below the outlet. In this way the material is channelled to the outlet so that lateral arches which may be formed in the material are prevented or broken up to assure feeding. Pressure may be relieved on some of the piles by flanges extending laterally of the baffles. The invention also includes the combination of gates equipped to break up longitudinal arches with baffles to prevent the formation of lateral arches.

IPC 1-7  
**B65D 88/64**; **B65D 90/60**

IPC 8 full level  
**B65D 88/64** (2006.01)

CPC (source: EP)  
**B65D 88/64** (2013.01)

Citation (search report)  
• [X] EP 0101959 A1 19840307 - UPPER LAKES SHIPPING LTD [CA]  
• [Y] US 1385254 A 19210719 - KARL LUFT  
• [Y] US 3489296 A 19700113 - SNOW FREDERICK O  
• [A] US 2741464 A 19560410 - CONOVER ALONZO E  
• [A] US 1663173 A 19280320 - PIODA LOUIS E W  
• [A] US 4004700 A 19770125 - EMPEY ROBERT M  
• [A] US 3610485 A 19711005 - RADEN FREDERICK F VAN

Cited by  
CN112136004A; CN106867548A; CN111994487A

Designated contracting state (EPC)  
BE DE FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0196105 A2 19861001**; **EP 0196105 A3 19880330**

DOCDB simple family (application)  
**EP 86104271 A 19860327**