

Title (en)

AIR CURTAIN HOUSING FOR CONVEYOR MECHANISM

Publication

EP 0230147 A3 19880107 (EN)

Application

EP 86310210 A 19861230

Priority

US 81525885 A 19851231

Abstract (en)

[origin: EP0230147A2] An air curtain conveyor protection system that prevents airborne particles from entering a slot (28) through which the product support members (18) extend from the conveyor mechanism housing (25) into the product treatment booth (10). A continuous stream or curtain of high velocity air flows across the slot in the conveyor housing, exiting from an outlet or supply nozzle (45) formed by a plenum (35) on one side of the slot and entering into a suction nozzle (46) formed on the opposite side of the slot by a second plenum (36). A fan or blower (50) is associated with each plenum to force ambient air through the supply nozzle and to draw air through the suction nozzle. Ambient air flowing between the nozzles forms an air curtain across the slot to prevent ingress of the deleterious atmosphere in the product treatment booth into the conveyor housing.

IPC 1-7

B05B 15/12; **B05B 13/02**; **F24F 9/00**; **F27B 9/24**

IPC 8 full level

B05B 13/02 (2006.01); **B05B 15/12** (2006.01); **B05B 16/00** (2018.01); **B05B 16/60** (2018.01)

CPC (source: EP)

B05B 13/0264 (2013.01); **B05B 16/60** (2018.01); **B05B 16/90** (2018.01)

Citation (search report)

- [Y] FR 2212765 A5 19740726 - EMBALLAGE STE GLE POUR [FR]
- [YD] US 4207833 A 19800617 - NAPADOW STANLEY C [US]
- [A] FR 1367620 A 19640724

Cited by

CN113414039A; US6802256B1; EP0321693A3; US5061510A; EP0505694B1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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