

Title (en)  
Particulate matter extraction device

Title (de)  
Vorrichtung zur Extraktion von teilchenförmigen Materialien

Title (fr)  
Dispositif pour l'extraction des matières particulaires

Publication  
**EP 0853985 A3 19991229 (EN)**

Application  
**EP 98300354 A 19980119**

Priority  
GB 9701032 A 19970118

Abstract (en)  
[origin: EP0853985A2] The device (20) is for extracting gas-borne particulate matter from a partly enclosed space through which a mass of bulk material is being conveyed. The device (20) comprises a casing (17) having an entry end and an exit end arranged to allow a conveyor (16) to move through the casing in order to convey a mass of bulk material through the casing. The device includes a duct (21) mounted on the casing (17) and having an inlet (26) which communicates with the casing so as to extract gas-borne particulate matter from the casing and an outlet communicating with the casing in order to return the particulate matter to the casing (17). A liquid nozzle (22) is arranged in the duct (21) so as to direct a jet spray of liquid in a direction towards the outlet and thereby induce a flow of gas-borne particulate material into the duct (21) through the inlet thereof and which material is wetted prior to return of the material to the casing via the outlet. The outlet being arranged in use to direct the wetted material downwardly onto a collection surface (29) located in the casing. <IMAGE>

IPC 1-7  
**B08B 17/00**

IPC 8 full level  
**B08B 17/00** (2006.01); **E01C 23/088** (2006.01)

CPC (source: EP)  
**B08B 17/00** (2013.01); **E01C 23/088** (2013.01); **E01C 2301/50** (2013.01)

Citation (search report)  
• [A] US 3757491 A 19730911 - GOURDINE M  
• [A] US 2573290 A 19511030 - GUILDER WALTER VAN

Cited by  
NL2000161C2; NL1044011B1; US7422390B2; WO2008013444A1; WO03100172A1

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