

Title (en)

Device and plant for removing dust from granular materials

Title (de)

Vorrichtung und Anlage zur Staubentfernung von granulären Materialien

Title (fr)

Dispositif et installation de suppression de poussière pour les matériaux granuleux

Publication

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Application

EP 07003046 A 20070213

Priority

IT VR20060033 A 20060214

Abstract (en)

The present invention relates to a dust removing device for granular material comprising: a casing (2) delimiting a supply chamber (3) arranged to feed granular material to be freed from dust, and being formed with an input opening (3a); a dust removing chamber (4) designed to remove dust from the granular material and in fluid communication with the supply chamber (3); a disposing chamber (5) for granular material freed from dust formed with an output opening (5a), thereby allowing an uninterrupted flow of granular material to be freed from dust to occur between the supply chamber (3) and the disposing chamber (5); a pressurized washing air supply opening (5b); and a washing air discharging duct (14); a source (12) of pressurized air; a delivery duct (13) between the pressurized air source (12) and the pressurized air supply opening (5b); a return piping (17) between the washing air discharging duct (14) and the washing air source (12); one or more filters (16) in the return piping; and fluidifying fluid (6) for the granular material to be freed from dust located in the dust removing chamber (5), and conveying and dosing arrangement (11, 11a) designed to convey and meter the granular material to be freed from dust and located between the supply chamber (3) and the dust removing chamber (5).

IPC 8 full level

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CPC (source: EP)

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Cited by

US10287171B2; CN105772219A; FR3129095A1; CN109414728A; CN109890519A; CN105797959A; KR20170084154A; CN108772296A; CN109663447A; EP2711097A1; DE102012108907A1; CN109219484A; US9682404B1; WO2016041968A1; WO2019201723A1; WO2018073053A1; US9440262B2; TWI730086B; TWI643699B; WO2019201721A1; WO2023083991A1

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