

Title (en)
STATIC CHARGE AND DUST REMOVING DEVICE

Title (de)
VORRICHTUNG ZUR BESEITIGUNG VON STATISCHER LADUNG UND STAUB

Title (fr)
DISPOSITIF D'ELIMINATION DES CHARGES STATIQUES ET DES POUSSIERES

Publication
EP 1759776 A1 20070307 (EN)

Application
EP 05751544 A 20050615

Priority
• JP 2005010924 W 20050615
• JP 2004184158 A 20040622

Abstract (en)
This static electricity and dust removing apparatus has a base box (11) provided with an airflow inlet port (16), and a processing head (23) attached to the base box (11) through a support column (21), wherein a processing space (24) is formed between the airflow inlet port (16) and the processing head (23). Air curtains for isolating the processing space (24) from the outside due to air from a spout of an air spout pipe (33) are formed at a front opening portion (29) and right and left side opening portions (28) of the apparatus. Ionized air generated by an ion generator (42) is spouted into the processing space (24), so that the ionized air is sprayed on matters to be processed which are disposed in the processing space (24) and dust is removed from the matters to be processed. Thereby, a static electricity and dust removing operation to the dust adhering to the matters to be processed can be efficiently performed within a short time, and work environment can be prevented from being contaminated due to a leakage of the removed dust.

IPC 8 full level
B08B 5/02 (2006.01); **B08B 6/00** (2006.01); **B08B 15/02** (2006.01); **H05F 3/04** (2006.01)

CPC (source: EP US)
B08B 5/02 (2013.01 - EP US); **B08B 6/00** (2013.01 - EP US); **B08B 9/00** (2013.01 - EP US); **B08B 15/023** (2013.01 - EP US); **H05F 3/04** (2013.01 - EP US); **B08B 2215/003** (2013.01 - EP US)

Cited by
AU2011328454B2; CN102814301A; CN103861842A; EP2269943A3; CN109877116A; US9283146B2; WO2014053079A1; WO2012172418A3; WO2012062478A1; US8820365B2; US9272092B2

Designated contracting state (EPC)
DE IT

DOCDB simple family (publication)
EP 1759776 A1 20070307; **EP 1759776 A4 20080521**; CN 1972763 A 20070530; JP 2006007012 A 20060112; TW 200600200 A 20060101; US 2009158537 A1 20090625; WO 2005123284 A1 20051229

DOCDB simple family (application)
EP 05751544 A 20050615; CN 200580020896 A 20050615; JP 2004184158 A 20040622; JP 2005010924 W 20050615; TW 94118531 A 20050606; US 63056105 A 20050615