

Title (en)
DUST REMOVAL APPARATUS

Title (de)
ENTSTAUBUNGSVORRICHTUNG

Title (fr)
APPAREIL ELIMINANT LES POUSSIÈRES

Publication
EP 0912802 A1 19990506 (EN)

Application
EP 97907517 A 19970306

Priority
• SE 9700382 W 19970306
• SE 9601915 A 19960521

Abstract (en)
[origin: WO9744525A1] An apparatus for removing dust released, for instance, during the production of a soft crepe paper web (1) which is creped off a Yankee cylinder (2) and spread laterally comprises a dust suction box (18) consisting of a housing (20) with an inner suction chamber (21), said housing (20) having a first inlet (24) in the form of a suction gap, a main part (25) and first and second parts (26, 27) which define said suction gap (24) between them. According to the invention the main part is in the form of part of a cylinder to provide a corresponding curved inner side (34) in the suction chamber, and the suction gap comprises an outer gradual throttling (29) and an inner gradual enlargement (30), said throttling and enlargement merging at a transition (31) where said throttling is maximal. The first inlet forming part (26) comprises a flat surface (33) that defines its side of said enlargement whereas the second part (27) forming the inlet comprises both a curved surface (36) having predetermined radius and such an arc length that it defines the whole of its side of the throttling (29) and an initial part of the enlargement (30), and also an inner, flat surface (37) extending at a tangent from the curved surface (36) and forming an acute angle alpha with a tangent to the curved surface at said transition.

IPC 1-7
D21G 9/00

IPC 8 full level
D21G 9/00 (2006.01); **D21G 3/00** (2006.01)

CPC (source: EP)
D21G 3/00 (2013.01)

Citation (search report)
See references of WO 9744525A1

Designated contracting state (EPC)
AT DE FR GB IT SE

DOCDB simple family (publication)
WO 9744525 A1 19971127; AT E219188 T1 20020615; CA 2252909 A1 19971127; CA 2252909 C 20030729; DE 69713331 D1 20020718; DE 69713331 T2 20030109; DE 912802 T1 19991007; EP 0912802 A1 19990506; EP 0912802 B1 20020612; JP 2000510918 A 20000822; JP 4001351 B2 20071031; SE 506595 C2 19980119; SE 9601915 D0 19960521; SE 9601915 L 19971122

DOCDB simple family (application)
SE 9700382 W 19970306; AT 97907517 T 19970306; CA 2252909 A 19970306; DE 69713331 T 19970306; DE 97907517 T 19970306; EP 97907517 A 19970306; JP 54213297 A 19970306; SE 9601915 A 19960521