

Title (en)

DEVICE FOR OPENING FLOCCULENT FIBROUS MATERIAL.

Title (de)

VORRICHTUNG ZUM ÖFFNEN VON FLOCKENFÖRMIGEM FASERGUT.

Title (fr)

DISPOSITIF POUR L'OUVERTURE D'UNE MATIERE FIBREUSE FLOCONNEUSE.

Publication

EP 0572495 A1 19931208 (DE)

Application

EP 92905486 A 19920217

Priority

- DE 9200119 W 19920217
- DE 4105189 A 19910220

Abstract (en)

[origin: US5437080A] PCT No. PCT/DE92/00119 Sec. 371 Date Aug. 20, 1993 Sec. 102(e) Date Aug. 20, 1993 PCT Filed Aug. 20, 1993 PCT Pub. No. WO92/14872 PCT Pub. Date Sep. 3, 1992. A device for opening flocculent fibrous materials, including a housing and a supply connection pipe having an end extending into a lower portion of the housing for introducing into the housing a negative pressure transport air current conveying fiber flocks. A hollow cylinder is provided that has one end connected to the end of the supply connection pipe, an open end opposite to the one end, and a diameter larger than a diameter of the end of the supply connection pipe. The hollow cylinder forms an annular chamber within the housing. The device further includes a discharge connection pipe connectable to the housing for discharging the fibrous material. The housing, supply connection pipe, hollow cylinder and discharge connection pipe collectively define a pneumatic conveying path for the fibrous material. Additionally provided is a drivable opening disc disposed within the housing and positioned at a distance from and parallel to the open end of the hollow cylinder to extend across the open end. The disc includes a plurality of pointed spikes each projecting towards the hollow cylinder for processing material as it is conveyed along the pneumatic conveying path.

Abstract (fr)

Un dispositif pour l'ouverture d'une matière fibreuse floconneuse composée de fibres naturelles ou synthétiques, est monté dans un couloir transporteur pneumatique, pour la transformation de ladite matière, par l'intermédiaire d'une tubulure de raccordement d'amenée (5) et d'une tubulure de raccordement de dérivation (9). A cet effet, sur la tubulure de raccordement d'amenée (5) est raccordé un cylindre creux ouvert vers le haut (7) s'étendant dans une enveloppe cylindrique (2) reliée à la tubulure de raccordement de dérivation (9), tout en formant une chambre annulaire (8). A l'intérieur de l'enveloppe (2) est monté, à une distance déterminée, parallèlement au côté frontal dégagé du cylindre creux (7), un disque-ouvreur (19) commandé, recouvrant ledit côté, et garni de tiges pointues (29) s'étendant en direction du cylindre creux (7).

IPC 1-7

D01G 9/06

IPC 8 full level

D01G 9/06 (2006.01)

IPC 8 main group level

D01G (2006.01)

CPC (source: EP US)

D01G 9/06 (2013.01 - EP US)

Citation (search report)

See references of WO 9214872A1

Cited by

US6021549A

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

US 5437080 A 19950801; AT E116011 T1 19950115; AU 1272492 A 19920915; AU 660961 B2 19950713; CA 2104117 A1 19920821; CN 1036409 C 19971112; CN 1064322 A 19920909; DE 4105189 A1 19920827; DE 4105189 C2 19950223; DE 59201027 D1 19950202; DE 9104369 U1 19910926; DK 0572495 T3 19950606; EP 0572495 A1 19931208; EP 0572495 B1 19941221; ES 2069993 T3 19950516; NO 932929 D0 19930818; NO 932929 L 19930818; PL 169078 B1 19960531; PT 100131 A 19940429; TR 27150 A 19941109; WO 9214872 A1 19920903

DOCDB simple family (application)

US 11705693 A 19930820; AT 92905486 T 19920217; AU 1272492 A 19920217; CA 2104117 A 19920217; CN 92100582 A 19920213; DE 4105189 A 19910220; DE 59201027 T 19920217; DE 9104369 U 19910220; DE 9200119 W 19920217; DK 92905486 T 19920217; EP 92905486 A 19920217; ES 92905486 T 19920217; NO 932929 A 19930818; PL 29661992 A 19920217; PT 10013192 A 19920218; TR 12492 A 19920205