

Title (en)

Process and apparatus for collecting mineral fibres.

Title (de)

Verfahren und Einrichtung zur Ablagerung von Mineralfasern.

Title (fr)

Procédé et dispositif de réception de fibres minérales.

Publication

EP 0406106 A1 19910102 (FR)

Application

EP 90401838 A 19900627

Priority

EP 89401863 A 19890629

Abstract (en)

[origin: JPH0340817A] PURPOSE: To widen the density range in both the low- and high-density directions in order to increase the flexibility of a production line while maintaining and improving the quality of the resultant product by increasing the surface area of a collection zone in the direction to increase the density on a conveyor belt. CONSTITUTION: Fibers are collected by sucking a gas and each fiber producing machine 1 has a collection zone Zi of its own. The fibers collected in different collection zones Zi are taken out to the outside of the collection zones Zi with the one or more zones Zi in order to afford a mineral wool mat. For the purpose, fibers and a gas produced by a set of fiber producing machines 1 are separated. At this time, the closer a machine 1 is to the final zone of fiber forming, the further separated the machine 1 is from the adjacent fiber producing machine or machines 1. The fibers from the most distant fiber producing machine 1 are deposited onto the same conveyor belt to thereby compensate for an increase in the gas flow resistance.

Abstract (fr)

L'invention concerne la réception de fibres sous des machines de fibrage (1) en vue de l'obtention d'un matelas en laine minérale. Elle propose d'affecter à chaque machine de fibrage sa propre zone de collecte (5), les surfaces des zones de collecte (L1, L2, L3, L4) étant croissantes dans le sens de l'augmentation des grammages. L'augmentation des surfaces des zones de collecte est obtenue notamment par une augmentation progressive des entraxes (E1, E2, E3) entre les machines de fibrage et/ou l'inclinaison progressive des machines de fibrage.

IPC 1-7

D04H 1/00; D04H 1/72

IPC 8 full level

C03B 37/00 (2006.01); **D01G 25/00** (2006.01); **D04H 1/00** (2006.01); **D04H 1/4209** (2012.01); **D04H 1/4218** (2012.01); **D04H 1/4226** (2012.01); **D04H 1/72** (2012.01); **D04H 17/00** (2006.01)

CPC (source: EP KR US)

D04H 1/00 (2013.01 - EP US); **D04H 1/4209** (2013.01 - EP KR US); **D04H 1/4218** (2013.01 - EP US); **D04H 1/4226** (2013.01 - EP US); **D04H 1/72** (2013.01 - EP KR US)

Citation (search report)

- [A] FR 2176935 A1 19731102 - OWENS CORNING FIBERGLASS CORP [US]
- [A] US 3824086 A 19740716 - PERRY W M, et al
- [AD] FR 1342362 A 19631108 - OWENS CORNING FIBERGLASS CORP

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0406106 A1 19910102; EP 0406106 B1 19931222; AT E99004 T1 19940115; AU 5683090 A 19910103; AU 631880 B2 19921210; BR 9003074 A 19910827; CS 317690 A2 19910813; DD 296321 A5 19911128; DE 69005378 D1 19940203; DE 69005378 T2 19940601; DK 0406106 T3 19940328; ES 2048993 T3 19940401; FI 903271 A0 19900628; HU 209899 B 19941128; HU 904025 D0 19901228; HU T62244 A 19930428; IE 64970 B1 19950920; IE 902342 A1 19910116; IE 902342 L 19901229; JP H0340817 A 19910221; KR 910001132 A 19910130; NO 169354 B 19920302; NO 169354 C 19920610; NO 902792 D0 19900622; NO 902792 L 19910102; PL 164733 B1 19941031; PL 285858 A1 19910225; SI 9011196 A 19941231; TR 24504 A 19911101; US 5056195 A 19911015; YU 119690 A 19921221; YU 47163 B 19950131; ZA 904440 B 19930305

DOCDB simple family (application)

EP 90401838 A 19900627; AT 90401838 T 19900627; AU 5683090 A 19900606; BR 9003074 A 19900629; CS 317690 A 19900626; DD 34228290 A 19900629; DE 69005378 T 19900627; DK 90401838 T 19900627; ES 90401838 T 19900627; FI 903271 A 19900628; HU 402590 A 19900628; IE 234290 A 19900628; JP 17038290 A 19900629; KR 900009610 A 19900628; NO 902792 A 19900622; PL 28585890 A 19900629; SI 9011196 A 19900618; TR 66890 A 19900627; US 54450090 A 19900627; YU 119690 A 19900618; ZA 904440 A 19900608