

Title (en)

Apparatus for removing trash from a fiber web.

Title (de)

Vorrichtung zum Ausscheiden von Schmutz aus einem Faservlies.

Title (fr)

Appareil pour éliminer des impuretés d'une toison de fibres.

Publication

EP 0388791 B1 19940608 (DE)

Application

EP 90104895 A 19900315

Priority

CH 109289 A 19890323

Abstract (en)

[origin: EP0388791A1] A card 1 has a cylinder 2, a revolving flat 3, a lick-in roller 4 and a take-off roller 5 (also called a doffer roller). <??>In order, on the one hand, to eliminate dirt and, on the other hand, to improve the carding effect of the card as a whole in the breaking zone between the lick-in 4 and the revolving flat 3, in the post-carding zone between the revolving flat 3 and the doffer 5 and in the sub-carding zone between the doffer 5 and the lick-in 4, according to the invention there is a combination of a preparation element 6, a suction device 7 and a separating knife 8 or 9. <??>According to the invention, the preparation element has a structured surface directed opposite to the cylinder surface and represented in Figure 1 as teeth pointed sharply in the direction of rotation D of the cylinder 2. <??>By means of this structured surface, on the one hand a carding effect can be obtained, and on the other hand the fleece lying on the cylinder 2 is exposed to some vibration, so that, in combination with the centrifugal force, the dirt can be eliminated more effectively on the knife 8 or 9 and removed by the suction device 7. <??>In the breaking zone between the lick-in 4 and the revolving flat 3, the knife 9 is assigned a carding bar 10, unlike the knife 8 in the post-carding and sub-carding zones which has an independent element. <??>The invention is intended to improve, on the one hand, the carding effect and, on the other hand, the elimination of dirt on a card. <??>However, the invention is not restricted to the use of the combination on a card, but can also be employed on all rollers which carry a fleece and on which dirt has to be eliminated from the fleece. <IMAGE>

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CPC (source: EP US)

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- DE 3034036 A1 19820415 - HOLLINGSWORTH GMBH [DE]
- GB 1483291 A 19770817 - HOLLINGSWORTH J

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