

Title (en)
DIRT EXTRACTOR

Title (de)
SCHMUTZAUSSCHEIDER

Title (fr)
DISPOSITIF D'ELIMINATION DE LA SALETE

Publication
EP 1047816 A1 20001102 (DE)

Application
EP 99957310 A 19991115

Priority
• DE 19852562 A 19981113
• EP 9908769 W 19991115

Abstract (en)
[origin: DE19852562C1] The carding assembly, to detach and remove dirt from loosened fiber materials, has channels (10) formed by the roller (2) and its clothing (3) faced by opposing card segments (8). The configuration of the dirt separation blades (13) presents the blade edge (15) of the blade (13) for the first channel more aggressively into the clothing (3) which carries the fibers than does the edge of the other blade for the second channel. The pitch angle (N) of the separation blade (13) against the direction (6) of roller (2) rotation is smaller at the first channel (10) than at the second channel. Each channel (10) has a retainer (17) in front of the separation blade (13), in the direction (6) of roller (2) rotation, with a foot surface (18) parallel to the roller clothing (3). The end of the foot surface (18), in the direction of roller (2) rotation, is at a gap from the blade edge with a smaller gap for the structure at the first channel than at the second channel. The end of the foot surface (18) is shaped as an air guide surface (21), at an angle to the vertical on the clothing (3), towards the separation blade (13). The retainer (17) has an L-shape, on a plane at right angles to the rotary axis of the roller (2), with the foot surface (18) formed by one leg. The separation blade (13) has a plate shape, at least at the second channel (10). A holder (12) keeps the blade (13) at a given angle (N) preferably in an exchangeable mounting. The air guide surface (21) at the end of the retainer foot surface (18), at least at the first channel, forms a jet (22) between it and the holder (12) and/or at least a section of the separation blade (13), expanding outwards away from the clothing (3) at the roller (2). The jet (22) formed at the second channel tapers away from the clothing (3) at the roller. The jet (22) is angled in the direction (6) of roller (2) rotation. The separation blade (13) and/or retainer (17) and/or the channel (10) extend over the whole width of the roller (2) in the direction of the rotary axis.

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