

Title (en)
Suction device

Title (de)
Absaugeinrichtung

Title (fr)
Dispositif d'aspiration

Publication
EP 0942088 A3 20001115 (DE)

Application
EP 99104602 A 19990308

Priority
• DE 19810073 A 19980309
• DE 19830346 A 19980707

Abstract (en)
[origin: EP0942088A2] The suction cleaner, to remove fluff and lint from a flatbed knitter, has a suction jet mounted to a knitting head which is connected to a vacuum generator to extract air and fluff together. A sealing connector links the suction jet to the vacuum source with a suction channel (21) and a moving sealing head along the suction channel together with the knitting head or suction jet. The suction channel (21) has elastic and tensed sealing lips (25,25') in a sealing direction, which are opened in sections by the sealing head to link the suction channel (21) to the suction jet. The suction channel (21) has a slit (23), with the sealing lips (25,25') at its edges (24,24') with one of their ends, and their other ends (27,27') lie against each other. Atmospheric pressure bears on the sealing lips (25,25') in the sealing direction when the vacuum source is operated. The sealing head has longitudinal slides, along the line of the suction channel (21), with pointed ends. The sealing lips (25,25') lie against the outer surfaces. One end of the slide is round a channel line section, and the other end is connected to the suction jet. The sealing head and the suction jet form a component unit at the knitter head in a stiff and vibration-resistant assembly. The sealing lips (25,25') and/or the slides are of a low wear and low friction material, or they are coated with it.

IPC 1-7
D04B 35/32

IPC 8 full level
D04B 35/32 (2006.01)

CPC (source: EP)
D04B 35/32 (2013.01)

Citation (search report)
• [X] US 3018503 A 19620130 - KENJI HIJIVA, et al
• [X] DE 2430439 A1 19750206 - TOYODA AUTOMATIC LOOM WORKS [JP], et al
• [A] DE 3613503 A1 19871112 - ZUBLER KURT DIPL ING [DE]
• [A] US 3003117 A 19611003 - GUS STAVIS
• [A] DE 3927980 C1 19901220

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