

Title (en)
Suction rail suctioning system

Title (de)
Saugschlitzkanalabsaugsystem

Title (fr)
Système d'aspiration d'un canal à fente d'aspiration

Publication
EP 2486987 A2 20120815 (DE)

Application
EP 12000636 A 20120201

Priority
DE 102011010794 A 20110209

Abstract (en)
The suction nozzle (1) comprises an intake port. The nozzle is connected in or on a suction rail (2) that is sealed by a sealing lip (31, 32) relative to the intake port of the suction nozzle. A suction rail-side end of the intake port is provided with a projecting bead for engaging the sealing lips. The suction nozzle is configured in a flattened or tapered shape in a spatial direction for the suction rail-side end, and an opening of the oval intake port is designed in a tapered shape. A cross section of the nozzle remains same to the intake port in a spatial direction. The suction nozzle (1) comprises an intake port. The nozzle is connected in or on a suction rail (2) that is sealed by a sealing lip (31, 32) relative to the intake port of the suction nozzle. A suction rail-side end of the intake port is provided with a projecting bead for engaging the sealing lips. The suction nozzle is configured in a flattened or tapered shape in a spatial direction for the suction rail-side end, and an opening of the oval intake port is designed in a tapered shape. A cross section of the nozzle remains same to the intake port in a spatial direction and in a perpendicular direction. A flexible suction hose is connected at the suction nozzle. The bead of the intake port is provided with a patterned non-planar surface. Independent claims are included for: (1) a suction rail exhaust system; and (2) a sealing lip.

Abstract (de)
Die Erfindung betrifft eine Saugdüse (1) für ein Saugschlitzkanalabsaugsystem (11), welches die Saugdüse in oder an einem Saugschlitzkanal (2) führt, welcher mittels mindestens einer Dichtlippe (31, 32) gegenüber einem Ansaugstutzen (12) der beweglich geführten Saugdüse (1) abgedichtet ist, wobei das Saugschlitzkanal-seitige Ende (14) des Ansaugstutzens (12) einen überstehenden Wulst (13) aufweist, der zur Anlage an der/den Dichtlippen (31, 32) vorgesehen ist, wobei wenigstens der Wulst (13) des Ansaugstutzens (12) mit einer strukturierten nichtplanen Oberfläche versehen ist. Des Weiteren betrifft die Erfindung eine Dichtlippe (31, 32) für ein solches Saugschlitzkanalabsaugsystem (11) und ein Saugschlitzkanalabsaugsystem mit einer oben genannten Saugdüse und/oder Dichtlippe.

IPC 8 full level
B08B 15/00 (2006.01)

CPC (source: EP)
B08B 15/005 (2013.01)

Citation (applicant)
• DE 4422731 A1 19960104 - PIWKO KLAUS [DE], et al
• US 2007209545 A1 20070913 - CARO SAL [US], et al
• DD 75140 A
• US 3913470 A 19751021 - CULLEN PATRICK F

Cited by
CN106216342A; US9764896B2

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