

Title (en)
Side-channel machine

Title (de)
Seitenkanalmaschine

Title (fr)
Machine à canal latéral

Publication
EP 0845600 A2 19980603 (DE)

Application
EP 97116011 A 19970915

Priority
DE 19649529 A 19961129

Abstract (en)
The machine comprises a circulating disc-shaped running wheel (24) with a number of pockets formed on the common part circle and distributed in a peripheral direction. A housing with a work chamber accommodates the wheel and side channels (44) cover the tracks of the pockets formed by the opposing face wall of the work chamber. The side channels have an angle extend of less than 360 degrees so that between the end sections of the side channels ribs remain. The side channel end sections remain in connection with an inlet channel (80). In the inlet side end section of at least one of the side channels a guide component (102) asymmetrical to the part circle (106) of the pockets (36) of the running wheel (24) is arranged.

Abstract (de)
Zur Verbesserung des Wirkungsgrades einer Seitenkanal-Saugmaschine wird vorgeschlagen, in den Einlaßbereichen der Seitenkanäle (44) jeweils eine ebene Leitwand (102) vorzusehen, die vom Grund des Seitenkanales bis in die Stirnfläche des Gehäuseteiles (12) reicht, in welchem der Seitenkanal ausgebildet ist. Die Leitwand (102) ist gegenüber einem durch ihre Mitte gehenden Radiusstrahl verkippt, vorzugsweise um etwa 40$^{\circ}$. <IMAGE>

IPC 1-7
F04D 23/00

IPC 8 full level
A61C 17/06 (2006.01); **F04D 23/00** (2006.01)

CPC (source: EP US)
F04D 17/08 (2013.01 - EP US); **F04D 17/168** (2013.01 - EP US); **F04D 23/008** (2013.01 - EP US)

Citation (applicant)
DE 4128150 A1 19930225 - DUERR DENTAL GMBH CO KG [DE]

Cited by
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Designated contracting state (EPC)
DE FR IT

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