

Title (en)
Suction conveyor

Title (de)
Saugförderer

Title (fr)
Convoyeur à suction

Publication
EP 0798251 A3 19980107 (DE)

Application
EP 97103855 A 19970307

Priority
• DE 19612301 A 19960328
• DE 19649824 A 19961202

Abstract (en)
[origin: EP0798251A2] The sheets (7) are laid on a stringer (5) moved in one direction of travel. The stringer is supported by a support surface (9). A suction chamber arrangement (11) is connected to at least one suction opening (13) and produces retention force pressing the sheets against the conveyor stringer and exerting a throttle action on the suction air current going through the suction opening. The suction chamber arrangement consists of a duct-shaped (16) interior extending in the direction of travel and possessing duct sides formed by the support (8) and by the at least one stringer. One side of the duct is at least partly open facing the sheets. The remaining duct sides with the exception of the at least one suction opening are closed.

IPC 1-7
B65H 29/24

IPC 8 full level
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CPC (source: EP)
B65H 11/005 (2013.01); **B65H 29/16** (2013.01); **B65H 29/242** (2013.01); **B65H 29/686** (2013.01); **B65H 2801/21** (2013.01)

Citation (search report)
• [X] US 1625642 A 19270419 - DROITCOUR MICHAEL A
• [X] DE 713529 C 19411113 - KOENIG WERK G M B H MASCHF
• [X] FR 1261533 A 19610519 - STABILIMENTO DI ARTI GRAFICHE
• [A] EP 0324545 A1 19890719 - XEROX CORP [US]
• [A] FR 2294962 A1 19760716 - HEIDELBERGER DRUCKMASCH AG [DE]
• [AD] DD 247433 A1 19870708 - POLYGRAPH LEIPZIG [DD]
• [X] J.J.BURNARD: "FLOW REDUCTION ON GATED TRANSPORTS", XEROX DISCLOSURE JOURNAL., vol. 9, no. 2, April 1984 (1984-04-01), STAMFORD, CONN US, pages 119 - 120, XP002045355

Cited by
WO02102595A1; CN103359318A; DE102011115297A1; DE102008034266B4; DE10128833A1; DE10128833B4; DE102008034266A1; WO2012052092A1; US6877427B2

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