

Title (en)
Device for generating a vacuum

Title (de)
Vorrichtung zum Erzeugen eines Vakuums

Title (fr)
Dispositif pour créer le vide

Publication
EP 0872437 A3 19990414 (DE)

Application
EP 98105196 A 19980323

Priority
US 84253097 A 19970415

Abstract (en)
[origin: EP0872437A2] The device has a movable shaft (110) and a suction head (150) fitted thereon. The shaft has a device producing the vacuum whereby the vacuum is transferred to the suction head so that a part of the signature is seized by the suction head and moved relative to the signature stack in the container when the shaft is moved. The movable shaft is fitted rotatable on an axis and the vacuum is produced by a Venturi suction tube (160). The shaft has an axially aligned first passage (132) through which air is guided whereby the Venturi tube is located at least in part in the passage.

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B65H 3/08

IPC 8 full level
B25J 15/06 (2006.01); **B41L 21/08** (2006.01); **B65H 3/08** (2006.01); **B65H 3/14** (2006.01); **F04F 5/20** (2006.01)

CPC (source: EP US)
B65H 3/0875 (2013.01 - EP US); **B65H 3/14** (2013.01 - EP US); **B65H 5/12** (2013.01 - EP US)

Citation (search report)

- [X] GB 2247450 A 19920304 - FELIX INTERNATIONAL LIMITED [GB]
- [X] US 5603599 A 19970218 - WESSLEN PER-OLOF [US], et al
- [XY] DE 1912395 A1 19701001 - TREPEL KG MASCHINENFABRIK
- [XY] DE 2852681 A1 19800612 - FESTO MASCHF STOLL G
- [X] US 3884368 A 19750520 - BALLARD ROBERT L
- [A] GB 1109717 A 19680410 - BLATT LELAND F
- [A] US 4986524 A 19910122 - MEINTZER JR JOHN C [US], et al
- [A] DE 3526520 C1 19861106 - ELPATRONIC AG
- [A] US 3998448 A 19761221 - GRAY ARCHIBALD C, et al

Cited by
EP1398285A1; EP1020388A3; EP1806306A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0872437 A2 19981021; EP 0872437 A3 19990414; CN 1093492 C 20021030; CN 1196326 A 19981021; CZ 99598 A3 19981111; DE 19812596 A1 19981105; JP H10291664 A 19981104; US 5979889 A 19991109

DOCDB simple family (application)
EP 98105196 A 19980323; CN 98101105 A 19980313; CZ 99598 A 19980401; DE 19812596 A 19980323; JP 9895898 A 19980410; US 84253097 A 19970415