

Title (en)

Suction gripping unit

Title (de)

Sauggreifereinrichtung

Title (fr)

Dispositif de préhension par aspiration

Publication

EP 0941953 A1 19990915 (EN)

Application

EP 99104645 A 19990309

Priority

IT BO980147 A 19980311

Abstract (en)

A suction gripping unit (7) having a suction head (15) in which is defined a cavity (18) connected permanently to the outside via a through hole (23) and connected to a suction pump (14) by a conduit (20) controlled by a valve (22) housed inside the conduit (20) and close to the cavity (18).
<IMAGE>

IPC 1-7

B65H 3/08; **B65H 3/42**

IPC 8 full level

B65B 41/06 (2006.01); **B65H 3/08** (2006.01); **B65G 47/91** (2006.01); **B65H 3/42** (2006.01)

CPC (source: EP)

B65H 3/0883 (2013.01); **B65H 3/42** (2013.01)

Citation (search report)

- [A] EP 0775655 A1 19970528 - ROLAND MAN DRUCKMASCH [DE]
- [A] EP 0317232 A2 19890524 - TEKMAX INC [US]
- [A] DE 1946361 A1 19710408 - ADNUMAT GERAETEB AUGMBH & CO
- [A] US 4009876 A 19770301 - SMILTNEEK RALMOND J

Cited by

EP1655244A3

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0941953 A1 19990915; **EP 0941953 B1 20030521**; CN 1128752 C 20031126; CN 1229044 A 19990922; DE 69907999 D1 20030626; DE 69907999 T2 20040519; ES 2199495 T3 20040216; IT 1299894 B1 20000404; IT BO980147 A0 19980311; IT BO980147 A1 19990911; RU 2216498 C2 20031120

DOCDB simple family (application)

EP 99104645 A 19990309; CN 99103661 A 19990311; DE 69907999 T 19990309; ES 99104645 T 19990309; IT BO980147 A 19980311; RU 99104922 A 19990310