

Title (en)

Holding device for workpieces to be treated and vacuum clamping system with such a holding device

Title (de)

Haltevorrichtung für zu bearbeitende Werkstücke sowie Vakuumspannsystem mit einer derartigen Haltevorrichtung

Title (fr)

Dispositif de retenue pour une pièce à travailler et système de serrage avec un tel dispositif de retenue

Publication

**EP 1716976 A3 20080730 (DE)**

Application

**EP 06002519 A 20060208**

Priority

DE 102005020801 A 20050428

Abstract (en)

[origin: EP1716976A2] A tiltable permanent magnet, provided on one side of a suction body (16), is moved between an operating position and an outside position relative to a magnetically operable stop valve by a rocker lever (56) turned about an axis (52). The magnet is closer to the stop valve at the operating position compared to the outside position. In addition, the suction body has a suction area adjoined to a lower surface and close by the permanent magnet. An independent claim is also included for a vacuum clamping system.

IPC 8 full level

**B25B 11/00** (2006.01)

CPC (source: EP)

**B25B 11/005** (2013.01)

Citation (search report)

- [XY] US 6264185 B1 20010724 - ISOBE KAZUO [JP], et al
- [XY] DE 19937801 C1 20010104 - SCHMALZ J GMBH [DE]
- [X] DE 19613094 A1 19971002 - SCHMALZ J GMBH [DE]
- [Y] DE 19938851 A1 20010308 - GUSTAV WEEKE MASCHB GMBH [DE]
- [AD] WO 9920437 A1 19990429 - SCHMALZ J GMBH [DE], et al

Cited by

CN105345693A; CN105345529A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1716976 A2 20061102; EP 1716976 A3 20080730; EP 1716976 B1 20110406**; AT E504396 T1 20110415; DE 102005020801 A1 20061102; DE 502006009235 D1 20110519; ES 2361093 T3 20110613

DOCDB simple family (application)

**EP 06002519 A 20060208**; AT 06002519 T 20060208; DE 102005020801 A 20050428; DE 502006009235 T 20060208; ES 06002519 T 20060208