

Title (en)

Apparatus for handling workpieces or workpiece groups

Title (de)

Behandlungsvorrichtung zur Behandlung von Werkstücken oder Werkstückgruppen

Title (fr)

Appareil pour le traitement de pièces ou de groupes de pièces à usiner

Publication

EP 1582831 A3 20080123 (DE)

Application

EP 05004981 A 20050308

Priority

DE 102004015325 A 20040330

Abstract (en)

[origin: EP1582831A2] The apparatus for treatment of workpieces or workpiece groups comprises a housing with rotatable treatment chambers arranged at least at two levels, and at least one unit for transfer of workpieces or workpiece groups from an exit opening at one level to an entry opening at another level.

IPC 8 full level

F26B 15/06 (2006.01); **F26B 25/00** (2006.01)

CPC (source: EP US)

F26B 15/06 (2013.01 - EP US); **F26B 25/003** (2013.01 - EP US)

Citation (search report)

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- [X] DE 19639933 C1 19980409 - HILLINGRATHNER FRANZ [ES]
- [Y] DE 4130242 A1 19930318 - LINDNER ARNO KG [DE]
- [Y] EP 0397101 A1 19901114 - MITSUBISHI HEAVY IND LTD [JP]
- [DA] DE 4442152 A1 19960530 - BUCHMANN RICHARD DIPL PHYS DR [DE]
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Cited by

CN103797322A; US10184720B2; WO2012152391A1; WO2013017230A1

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1582831 A2 20051005; EP 1582831 A3 20080123; DE 102004015325 A1 20051013; US 2005239011 A1 20051027;
US 7210990 B2 20070501

DOCDB simple family (application)

EP 05004981 A 20050308; DE 102004015325 A 20040330; US 9245805 A 20050329