

Title (en)  
Supporting device for a plurality of spindles

Title (de)  
Tragvorrichtung für mehrere Aufnahmefutter

Title (fr)  
Dispositif de support pour plusieurs mandrins

Publication  
**EP 1201361 B1 20030604 (DE)**

Application  
**EP 01123834 A 20011005**

Priority  
DE 10053977 A 20001031

Abstract (en)  
[origin: EP1201361A1] The holder-cases have a connection for vacuum/air. the support has a spindle shaft (1) with a central hole (5) for supplying vacuum/air. Arms(14) with adjustable tilt angle in relation to the axis (20) of the spindle shaft are positioned on the head of the spindle shaft and have inserts (16) for a lens-case. A flexible vacuum/air pipe is between the inserts and the spindle shaft. A height adjustable support plate (3) is positioned symmetrically with the axis of the spindle shaft.

IPC 1-7  
**B24B 13/005**; B24B 41/06

IPC 8 full level  
**B24B 13/005** (2006.01); **B24B 41/06** (2012.01)

CPC (source: EP US)  
**B24B 13/005** (2013.01 - EP US); **B24B 41/061** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**EP 1201361 A1 20020502**; **EP 1201361 B1 20030604**; AT E242082 T1 20030615; CN 1350907 A 20020529; CZ 20013889 A3 20020612; CZ 294749 B6 20050316; DE 10053977 A1 20020516; DE 10053977 C2 20021121; DE 50100286 D1 20030710; JP 2002178250 A 20020625; US 2002052177 A1 20020502; US 6648765 B2 20031118

DOCDB simple family (application)  
**EP 01123834 A 20011005**; AT 01123834 T 20011005; CN 01137187 A 20011024; CZ 20013889 A 20011029; DE 10053977 A 20001031; DE 50100286 T 20011005; JP 2001330749 A 20011029; US 98457901 A 20011030