

Title (en)  
HANDWHEEL-OPERATED DEVICE

Title (de)  
HANDRADBETÄTIGTE VORRICHTUNG

Title (fr)  
DISPOSITIF ACTIONNE PAR MANIVELLE

Publication  
**EP 1631409 A2 20060308 (EN)**

Application  
**EP 04736669 A 20040611**

Priority  
• GB 2004002546 W 20040611  
• GB 0313470 A 20030611  
• GB 0321361 A 20030912

Abstract (en)  
[origin: WO2004108331A2] A handwheel-operated device comprising a body, a handwheel and a chuck, the handwheel and the chuck being rotatable relative to the body, and the device further comprising a first motor operable to rotate the chuck, first sensor means responsive to rotation of the handwheel and first control means operable in conjunction with the first sensor means to cause the first motor to rotate the chuck in dependence upon an angular displacement and/or angular velocity of the handwheel.

IPC 1-7  
**B23B 1/00**

IPC 8 full level  
**A47J 43/10** (2006.01); **B23B 45/02** (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP US)  
**A47J 43/1037** (2013.01 - EP US); **B23B 45/02** (2013.01 - EP US); **B25F 5/00** (2013.01 - EP US); **B23B 2260/128** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004108331A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004108331 A2 20041216**; **WO 2004108331 A3 20060302**; EP 1631409 A2 20060308; US 2006243469 A1 20061102

DOCDB simple family (application)  
**GB 2004002546 W 20040611**; EP 04736669 A 20040611; US 56019704 A 20040611