

Title (en)  
ERGONOMICALLY FRIENDLY ORBITAL SANDER CONSTRUCTION

Title (de)  
ERGONOMISCHE SCHWINGSCHLEIFERKONSTRUKTION

Title (fr)  
CONSTRUCTION D'UNE PONCEUSE ORBITALE ERGONOMIQUE ET FONDEMENTS DE L'INVENTION

Publication  
**EP 1305138 A1 20030502 (EN)**

Application  
**EP 01937302 A 20010511**

Priority  
• US 0115218 W 20010511  
• US 58771100 A 20000605

Abstract (en)  
[origin: WO0194073A1] A random orbital sander (10; 150) including a housing (17), a motor (24) having a vertical axis (71) in the housing (17), a pad (14) coupled to the motor (24), a face (70) on the pad (14) extending substantially perpendicularly to the vertical axis (71), a shroud (13) surrounding the pad (14), an opening (85) in the shroud (13), and a dust discharge tube (12) having an inner end (84) in communication with the opening (85) and an outer end (83) on the dust discharge tube end (12) extending at an acute angle to the face (70) of the pad (14). An orbital sander (220) wherein the pad (233) is supported from the sander housing by columnar units (242) located on opposite sides of the motor (225). A bore (184) in the motor shaft (227) conducts compressed air through the chamber (278) housing the bearings (276) which support the spindle (275) which mounts the pad (233).

IPC 1-7  
**B24B 27/08**; **B24B 23/04**

IPC 8 full level  
**B24B 23/03** (2006.01); **B24B 23/04** (2006.01); **B24B 41/00** (2006.01)

CPC (source: EP)  
**B24B 23/04** (2013.01); **B24B 41/007** (2013.01)

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**WO 0194073 A1 20011213**; AU 6305201 A 20011217; DE 60134554 D1 20080807; EP 1305138 A1 20030502; EP 1305138 A4 20050713; EP 1305138 B1 20080625; JP 2004508204 A 20040318

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