

Title (en)
HAND-OPERATED ORBITAL SANDER

Title (de)
HANDGEFÜHRTER SCHWINGSCHLEIFER

Title (fr)
PONCEUSE VIBRANTE COMMANDEE A LA MAIN

Publication
EP 0836543 A1 19980422 (DE)

Application
EP 97915266 A 19970128

Priority
• DE 9700145 W 19970128
• DE 19617573 A 19960502

Abstract (en)
[origin: DE19617573A1] The invention concerns a hand-operated orbital sander comprising a housing (12) and a tool holder (22) which holds a grinding tool (10) and is mounted via a rotary bearing (21) on a rotating eccentric pin (20) which projects out of the housing (12). In order to prevent the tool holder (22) from being entrained in rotation, an oscillating element (23) is provided with an inner ring (26), an outer ring (27) and a moulded part (28) of resilient material for interconnecting the two rings. The inner ring (26) is secured on the tool holder (22), coaxially to the rotary bearing (21), and the outer ring (27) is held in a rotationally rigid manner in the housing (22). The oscillating element (23) distributes the force symmetrically, enabling the twisting moment of the tool holder (22) with the grinding tool (10) to be adjusted as necessary via the hardness or thickness of the resilient moulded part (28).

IPC 1-7
B24B 23/04

IPC 8 full level
B24B 23/04 (2006.01)

CPC (source: EP US)
B24B 23/04 (2013.01 - EP US)

Citation (search report)
See references of WO 9742001A1

Cited by
DE19632218B4

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
DE 19617573 A1 19971106; BR 9702252 A 19990217; CN 1115231 C 20030723; CN 1190363 A 19980812; DE 59705369 D1 20011220; EP 0836543 A1 19980422; EP 0836543 B1 20011114; JP H11508832 A 19990803; US 5855504 A 19990105; WO 9742001 A1 19971113

DOCDB simple family (application)
DE 19617573 A 19960502; BR 9702252 A 19970128; CN 97190470 A 19970128; DE 59705369 T 19970128; DE 9700145 W 19970128; EP 97915266 A 19970128; JP 53939797 A 19970128; US 97364597 A 19971126