

Title (en)

HIGH TORQUE DUAL CHAMBER TURBINE ROTOR FOR HAND HELD OR SPINDLE MOUNTED PNEUMATIC TOOL

Title (de)

EIN HOHES DREHMOMENT ERZEUGENDER DOPPELKAMMERTURBINENROTOR FÜR HANDGEHALTENES ODER SPINDELMONTIERTES DRUCKLUFTWERKZEUG

Title (fr)

ROTOR DE TURBINE À CHAMBRE DOUBLE À COUPLE ÉLEVÉ POUR OUTIL PNEUMATIQUE PORTABLE OU MONTÉ SUR ARBRE

Publication

EP 1825104 A1 20070829 (EN)

Application

EP 04813567 A 20041208

Priority

US 2004041257 W 20041208

Abstract (en)

[origin: WO2006062522A1] A high torque turbine rotor for a lightweight hand held tool for grinding and polishing having a rotor that includes two separate high pressure air chambers separated by a common housing wall, each air chamber having peripheral air expelling nozzles in a tangential direction to the rotor periphery. The rotor housing is lightweight and increases torque without generally increasing the overall size and weight of the tool housing.

IPC 8 full level

F01D 1/32 (2006.01); **F01D 15/06** (2006.01)

CPC (source: EP KR)

B24B 23/026 (2013.01 - EP); **F01B 25/06** (2013.01 - KR); **F01D 1/18** (2013.01 - EP KR); **F01D 1/32** (2013.01 - EP); **F01D 15/067** (2013.01 - EP); **F01D 25/00** (2013.01 - KR); **F03B 13/00** (2013.01 - KR)

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

DOCDB simple family (publication)

WO 2006062522 A1 20060615; AU 2004325554 A1 20060615; AU 2004325554 B2 20090305; CA 2589985 A1 20060615; CA 2589985 C 20120327; CN 101035965 A 20070912; CN 101035965 B 20110824; EP 1825104 A1 20070829; EP 1825104 A4 20090715; EP 1825104 B1 20171122; ES 2655506 T3 20180220; JP 2008522847 A 20080703; JP 4804476 B2 20111102; KR 100979735 B1 20100902; KR 20070095886 A 20071001; MX 2007006907 A 20080128

DOCDB simple family (application)

US 2004041257 W 20041208; AU 2004325554 A 20041208; CA 2589985 A 20041208; CN 200480042400 A 20041208; EP 04813567 A 20041208; ES 04813567 T 20041208; JP 2007545430 A 20041208; KR 20077012938 A 20041208; MX 2007006907 A 20041208