

Title (en)
MULTISTAGE PNEUMATIC MOTOR

Title (de)
MEHRSTUFIGER PNEUMATIKMOTOR

Title (fr)
MOTEUR PNEUMATIQUE À ÉTAGES MULTIPLES

Publication
EP 2570590 A1 20130320 (EN)

Application
EP 10851297 A 20101115

Priority

- CN 201010170599 A 20100513
- CN 2010078715 W 20101115

Abstract (en)

A multistage pneumatic motor includes a shell (1) and a power output main shaft (2). The shell (1) is provided with a gas inlet (3) and a gas outlet (4). Two or more pneumatic motor stages (11, 12, 13) are installed in the shell (1). The first pneumatic motor stage is communicated with the gas inlet (3), and the last pneumatic motor stage is communicated with the gas outlet (4). Compressed gas enters the shell (1) through the gas inlet (3), drives the first pneumatic motor stage, then drives the next pneumatic motor stage, and is exhausted from the shell (1) through the gas outlet (4) at last. Every pneumatic motor stage is provided with a power output shaft (112, 122, 132) which is connected to the power output main shaft (2), so that the powers produced by all pneumatic motor stages (11, 12, 13) are jointed together and then output by the power output main shaft (2). The multistage pneumatic motor improves working efficiency greatly, saves energy source and reduces noise.

IPC 8 full level
F01C 11/00 (2006.01); **F04C 11/00** (2006.01)

CPC (source: EP US)
F01C 1/12 (2013.01 - EP US); **F01C 1/18** (2013.01 - EP US); **F01C 11/002** (2013.01 - EP US); **F01C 20/02** (2013.01 - EP US);
F01C 17/02 (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2570590 A1 20130320; EP 2570590 A4 20170517; EP 2570590 B1 20180711; AU 2010353176 A1 20121206; AU 2010353176 B2 20131017;
CN 101852091 A 20101006; CN 102003215 A 20110406; CN 102003215 B 20130515; CN 201843645 U 20110525; RU 2012148187 A 20140620;
US 2013055884 A1 20130307; WO 2011140793 A1 20111117

DOCDB simple family (application)
EP 10851297 A 20101115; AU 2010353176 A 20101115; CN 2010078715 W 20101115; CN 201010170599 A 20100513;
CN 201010543865 A 20101115; CN 201020606572 U 20101115; RU 2012148187 A 20101115; US 201013697602 A 20101115