

Title (en)

Apparatus with electronic control and automatic regulation of the rotations of a pneumatic motor

Title (de)

Vorrichtung mit elektronischer Steuerung und automatischer Regelung der Drehungen eines pneumatischen Motors

Title (fr)

Appareil à commande électronique et régulation automatique des tours d'un moteur pneumatique

Publication

EP 2589745 A1 20130508 (EN)

Application

EP 11187869 A 20111104

Priority

EP 11187869 A 20111104

Abstract (en)

The disclosure refers to an apparatus (1) for controlling the rotational speed of a shaft (2) of a pneumatic motor (3) to a desired speed and its use. The apparatus (1) comprises: - means (4, 5) for detecting the current rotational speed of the shaft (2), for example a Hall sensor device; - means (6) for varying a flow rate of air through the pneumatic motor (3), for example a solenoid valve disposed in an air intake (8) of the motor (3); and - electrically operated means (7) for automatically controlling the variation means (6) in response to the detected current rotational speed of the shaft (2) and depending on the desired speed, including for example a CPU.

IPC 8 full level

F01C 13/02 (2006.01); **B24B 23/02** (2006.01); **B25F 5/00** (2006.01); **F01C 20/08** (2006.01)

CPC (source: EP)

B24B 23/026 (2013.01); **B24B 47/26** (2013.01); **B24B 49/006** (2013.01); **B24B 49/10** (2013.01); **B25F 5/001** (2013.01); **F01C 13/02** (2013.01); **F01C 20/08** (2013.01); **F04C 2240/81** (2013.01); **F04C 2270/86** (2013.01)

Citation (search report)

- [X] US 2011088921 A1 20110421 - FORGUES SYLVAIN [CA], et al
- [A] WO 2009102257 A1 20090820 - ATLAS COPCO TOOLS AB [SE], et al

Cited by

CN112207714A; EP3772390A1; US11607788B2; WO2018234289A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2589745 A1 20130508

DOCDB simple family (application)

EP 11187869 A 20111104