Title (en)

Method and device for detecting unbalance in a rotor driven by a brushless electric motor

Title (de)

Verfahren und Vorrichtung zur Detektion von Unwuchten bei einem durch einen bürstenlosen Elektromotor angetriebenen Rotor

Title (fr)

Procédé et dispositif pour détecter le balourd d'un rotor entrainé par un moteur électrique sans balais

Publication

EP 1048774 A3 20010207 (DE)

Application

EP 00108260 A 20000414

Priority

DE 19918331 A 19990422

Abstract (en)

[origin: EP1048774A2] A measuring device registers the rotation speeed (n) and the imbalance of the rotor. When a minimum speed of the rotor is exceeded, an electrical parameter of the motor is adjusted. The electrical parameter is preferably the voltage (U) and is altered from its extent set for operation to an extent provid for a measurement in such a way that the slope of the characteristic curve of speed-torsion increases accordingly.

IPC 1-7

D06F 37/20

IPC 8 full level

D06F 33/48 (2020.01); **D06F 34/08** (2020.01); **D06F 34/16** (2020.01); **D06F 37/20** (2006.01)

CPC (source: EP US)

D06F 33/48 (2020.02 - EP US); **D06F 34/08** (2020.02 - EP US); **D06F 34/16** (2020.02 - EP US); D06F 2103/26 (2020.02 - EP US); D06F 2103/46 (2020.02 - EP US)

Citation (search report)

- [AD] EP 0565157 A1 19931013 - PHILIPS PATENTVERWALTUNG [DE], et al
- [A] US 5543698 A 19960806 - TAO JINGHAN [US], et al
- [A] EP 0349798 A2 19900110 - MIELE & CIE [DE]

Cited by

EP1045062B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1048774 A2 20001102; **EP 1048774 A3 20010207**; **EP 1048774 B1 20040317**; AT E262064 T1 20040415; DE 19918331 A1 20001026; DE 50005643 D1 20040422; ES 2218022 T3 20041116

DOCDB simple family (application)

EP 00108260 A 20000414; AT 00108260 T 20000414; DE 19918331 A 19990422; DE 50005643 T 20000414; ES 00108260 T 20000414