

Title (en)

DRIVING CONTROLLING APPARATUS FOR RECIPROCATING COMPRESSOR

Title (de)

ANTRIEBSREGELUNG FÜR EINEN KOLBENKOMPRESSOR

Title (fr)

APPAREIL COMMANDANT L'ENTRAÎNEMENT DESTINÉ À UN COMPRESSEUR ALTERNATIF

Publication

EP 1373728 A4 20040623 (EN)

Application

EP 01934583 A 20010524

Priority

- KR 0100867 W 20010524
- KR 20010015634 A 20010326

Abstract (en)

[origin: WO02077453A1] A driving controlling apparatus for reciprocating compressor using resonance, uses resonance increased in the current corresponding characteristic by compensating the inductance value of a coil turned inner part of the motor using a capacitor. A electric circuit further comprises a capacitor for compensating the inductance of the coil which is wound around the motor of the reciprocating compressing unit, accordingly, the burden of the applied voltage against the inductance is reduced, so low applied voltage can generate the stroke needed and the variation of the current hardly effect to the variation of the stroke. Therefore, stable load characteristic is maintained because the stroke variation is low even if the load variation is generated.

IPC 1-7

F04B 17/04; **F04B 49/06**; **F04B 35/04**

IPC 8 full level

F04B 49/06 (2006.01); **F04B 35/04** (2006.01); **F04B 49/00** (2006.01)

CPC (source: EP KR US)

F04B 35/045 (2013.01 - EP US); **F04B 49/00** (2013.01 - KR)

Citation (search report)

- [A] US 6176683 B1 20010123 - YANG SOON-BAE [KR]
- [AD] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09 30 September 1997 (1997-09-30)
- See references of WO 02077453A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 02077453 A1 20021003; AT E287043 T1 20050115; BR 0111190 A 20030408; CN 1430702 A 20030716; DE 60108427 D1 20050217; DE 60108427 T2 20060105; EP 1373728 A1 20040102; EP 1373728 A4 20040623; EP 1373728 B1 20050112; JP 2004519579 A 20040702; JP 3917526 B2 20070523; KR 100396774 B1 20030903; KR 20020075565 A 20021005; US 2003143080 A1 20030731

DOCDB simple family (application)

KR 0100867 W 20010524; AT 01934583 T 20010524; BR 0111190 A 20010524; CN 01810073 A 20010524; DE 60108427 T 20010524; EP 01934583 A 20010524; JP 2002575472 A 20010524; KR 20010015634 A 20010326; US 27691302 A 20021120