

Title (en)  
COMBINED BEARING AND DRIVE SYSTEM

Title (de)  
KOMBINIERTES LAGER- UND ANTRIEBSSYSTEM

Title (fr)  
SYSTEME COMBINE DE PALIER ET D'ENTRAINEMENT

Publication  
**EP 1082511 A1 20010314 (DE)**

Application  
**EP 00909256 A 20000225**

Priority  
• DE 19908349 A 19990226  
• EP 0001597 W 20000225

Abstract (en)  
[origin: DE19908349A1] The invention relates to a combined bearing and drive system, which consists of a permanently excited magnetic support system comprising at least one stationary and at least one mobile magnet bar, where pairs of opposite stationary and mobile magnet bars have poles of the same polarity. The system also consists of a linear motor which is coupled to the magnetic support system. The linear motor and support system are both housed in the same casing. The aim of the invention is to provide an improved bearing and drive system of this kind which is more compact, more functional, requires fewer materials and is less costly. To this end the support system has a symmetrical structure and all the stationary magnet bars and all the mobile magnet bars are arranged in a separate plane. Said support system is in a delicate balance and comprises symmetrically arranged lateral guide elements.

IPC 1-7  
**E05D 15/06**; E05F 15/18; F16C 39/06; H02K 7/09; H02K 41/02

IPC 8 full level  
**B60L 13/10** (2006.01); **B66B 13/08** (2006.01); **E05D 15/06** (2006.01); **E05F 15/60** (2015.01); **F16C 39/06** (2006.01); **H02K 41/02** (2006.01); **H02K 41/025** (2006.01); **H02K 41/03** (2006.01)

CPC (source: EP)  
**B60L 13/10** (2013.01); **E05D 15/0626** (2013.01); **E05D 15/066** (2013.01); **E05F 15/60** (2015.01); **F16C 32/0472** (2013.01); **F16C 39/063** (2013.01); **B60L 2200/26** (2013.01); **E05D 2015/0695** (2013.01); **E05Y 2900/132** (2013.01); **F16C 2326/10** (2013.01)

Cited by  
US11021900B2

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)  
**WO 0050719 A1 20000831**; AU 3160700 A 20000914; BR 0005006 A 20010102; CA 2329664 A1 20000831; CN 1294652 A 20010509; DE 19908349 A1 20000831; EP 1082511 A1 20010314; HU P0102740 A2 20011228; HU P0102740 A3 20030528; JP 2003526026 A 20030902; NO 20005359 D0 20001024; NO 20005359 L 20001219; PL 343670 A1 20010827; SK 15722000 A3 20010911

DOCDB simple family (application)  
**EP 0001597 W 20000225**; AU 3160700 A 20000225; BR 0005006 A 20000225; CA 2329664 A 20000225; CN 00800222 A 20000225; DE 19908349 A 19990226; EP 00909256 A 20000225; HU P0102740 A 20000225; JP 2000601271 A 20000225; NO 20005359 A 20001024; PL 34367000 A 20000225; SK 15722000 A 20000225