

Title (en)
COMBINED BEARING AND DRIVE SYSTEM

Title (de)
KOMBINIERTES LAGER- UND ANTRIEBSSYSTEM

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

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Application
EP 00909256 A 20000225

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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.

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