

Title (en)
LINEAR ELECTRIC MOTOR FOR MACHINE TOOL

Title (de)
ELEKTRISCHER LINEARMOTOR FÜR WERKZEUGMASCHINE

Title (fr)
MOTEUR ELECTRIQUE LINEAIRE POUR MACHINE-OUTIL

Publication
EP 1332544 A1 20030806 (EN)

Application
EP 01983782 A 20011024

Priority
• IT 0100541 W 20011024
• IT RE20000107 A 20001102

Abstract (en)
[origin: WO0237652A1] In the synchronous linear motor (10), the coil block (20) exhibits low inertia and therefore good dynamic performance, thanks to being constrained to slide with respect to the support structure (11), which comprises a plurality of magnets (13), on a single mechanical guide (16), which is arranged advantageously on an opposite wall with respect to the fixed magnets, which are immobile. The solution of the invention, especially suitable for actuating tool chucks, also offers high-level protection with regard both to external impurities and to the magnetic field emitted by the magnets themselves. The support structure (11) of the motor can be of a closed type with four sides.

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H02K 41/03

IPC 8 full level
H02K 41/03 (2006.01)

CPC (source: EP)
H02K 41/031 (2013.01)

Citation (examination)
• US 5642013 A 19970624 - WAVRE NICOLAS [CH]
• US 4581553 A 19860408 - MOCZALA HELMUT [DE]
• See also references of WO 0237652A1

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