

Title (en)

SMALL SIZE CONSTANT TORQUE VOICE COIL MOTOR.

Title (de)

SCHWINGSPULENMOTOR MIT GLEICHBLEIBENDEM TORSIONSMOMENT UND KLEINER DIMENSION.

Title (fr)

MOTEUR DE BOBINE MOBILE A COUPLE CONSTANT ET PETITE DIMENSION.

Publication

EP 0613579 A4 19950726 (EN)

Application

EP 92925370 A 19921120

Priority

- US 9210063 W 19921120
- US 79657691 A 19911122

Abstract (en)

[origin: WO9310531A1] A small size disk drive having an actuator magnet (346b) which is designed to provide a constant torque over the entire range of motion of the actuator arm. Specifically, magnet (346b) has a greater area at sides (347-1) and (347-2) than at the center of the magnet, thus increasing the magnetic flux at these areas to compensate for losses. Actuator coil (342) is capable of moving the actuator arm in both directions.

IPC 1-7

G11B 15/52; **G11B 5/012**; **G11B 21/08**

IPC 8 full level

G11B 11/10 (2006.01); **G11B 5/55** (2006.01); **G11B 21/02** (2006.01); **G11B 21/22** (2006.01); **G11B 25/04** (2006.01); **G11B 33/12** (2006.01); **G11B 33/14** (2006.01); **H02K 33/18** (2006.01)

CPC (source: EP)

G11B 5/5521 (2013.01); **G11B 21/22** (2013.01); **G11B 25/043** (2013.01); **G11B 33/121** (2013.01); **G11B 33/14** (2013.01)

Citation (search report)

- [AP] WO 9201283 A1 19920123 - CONNER PERIPHERALS INC [US]
- [A] US 4965684 A 19901023 - STEFANSKY FREDERICK M [US]
- [A] PATENT ABSTRACTS OF JAPAN vol. 15, no. 82 (E - 1038) 26 February 1991 (1991-02-26)
- See references of WO 9310531A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

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DOCDB simple family (application)

US 9210063 W 19921120; EP 92925370 A 19921120; EP 97202839 A 19921120; JP 2002008059 A 20020116; JP 2002008073 A 20020116; JP 50955093 A 19921120; KR 19940701720 A 19940521