

Title (en)

A FLYING HEAD POSITIONER WITH FINE POSITIONING

Title (de)

STELLANTRIEB FÜR FLIEGENDEN OPTISCHEN KOPF MIT FEINEINSTELLUNG

Title (fr)

POSITIONNEUR DE TÊTE FLOTTANTE À POSITIONNEMENT FIN

Publication

EP 0966738 A1 19991229 (EN)

Application

EP 97918669 A 19970415

Priority

- US 9706329 W 19970415
- US 1549396 P 19960415
- US 1574196 P 19960415
- US 1548996 P 19960415
- US 1544296 P 19960415
- US 1684896 P 19960503
- US 80430197 A 19970221
- US 82460597 A 19970326

Abstract (en)

[origin: WO9739447A1] A head positioner for an optical disk drive comprises a flying optical head, a coarse positioner and a head carriage coupled to the coarse positioner. The head carriage includes a fine positioner on which the flying optical head is mounted. A method for positioning a flying optical head includes steps of positioning the head carriage within a distance of the target position equal to a first positional resolution and rotating the head carriage to position the head within a distance of the target position equal to a second positional resolution less than the first positional resolution. The head positioner may also comprise a sensor having an output representative of a flying height of the head above the medium, a controller coupled to the sensor output and an actuator arranged to apply a variable load force to the flying head through the head carriage.

IPC 1-7

G11B 7/12; G11B 21/21

IPC 8 full level

G11B 5/60 (2006.01); **G11B 7/085** (2006.01); **G11B 7/09** (2006.01); **G11B 7/12** (2006.01); **G11B 21/21** (2006.01); **G11B 7/0037** (2006.01)

CPC (source: EP)

G11B 7/093 (2013.01); **G11B 7/0937** (2013.01); **G11B 7/12** (2013.01); **G11B 7/122** (2013.01); **G11B 21/21** (2013.01); **G11B 7/0037** (2013.01)

Citation (search report)

See references of WO 9739447A1

Designated contracting state (EPC)

FR GB

DOCDB simple family (publication)

WO 9739447 A1 19971023; EP 0894321 A1 19990203; EP 0894321 B1 20010207; EP 0966738 A1 19991229; JP 2002504252 A 20020205; WO 9739446 A1 19971023

DOCDB simple family (application)

US 9706329 W 19970415; EP 97918668 A 19970415; EP 97918669 A 19970415; JP 53734397 A 19970415; US 9706328 W 19970415