

Title (en)
OPTICAL PICK-UP APPARATUS

Title (de)
OPTISCHES ABTASTGERÄT

Title (fr)
APPAREIL DE LECTURE OPTIQUE

Publication
EP 0986812 A1 20000322 (EN)

Application
EP 98914129 A 19980401

Priority
• KR 9800075 W 19980401
• KR 19970022465 A 19970531

Abstract (en)
[origin: WO9854705A1] An optical pick-up apparatus for a disc player which has a simple construction and can be manufactured in a small size. The optical pick-up apparatus has a yoke plate provided with a first yoke and a second yoke which are upwardly protruded, a permanent magnet attached to a rear surface of the first yoke, a focusing coil wound around the second yoke while leaving a predetermined space therebetween, a tracking coil attached to a front surface of the focusing coil so that the tracking coil faces the permanent magnet, a gel holder installed opposite to the first yoke, an object lens holder which is disposed above the yoke plate and surrounds the first and second yoke plates, a flexible PCB which is directly connected to both focusing and tracking coils in order to transfer an electric signal from an electric source to the focusing and tracking coils, and suspension wires for movably suspending the object lens holder. Both ends of the suspension wires are connected to recesses filled up with damping gels, so the optical pick-up apparatus easily absorbs the impact applied thereto while operating. The focusing and tracking coils are directly connected to the flexible PCB so that a complicated process for electrically connecting the focusing and tracking coils to the electrical source is not necessary.

IPC 1-7
G11B 7/09; **G11B 21/02**; **G11B 11/10**; **H01R 35/02**

IPC 8 full level
G11B 7/09 (2006.01); **G11B 7/22** (2006.01)

CPC (source: EP KR)
G11B 7/093 (2013.01 - KR); **G11B 7/0932** (2013.01 - EP); **G11B 7/095** (2013.01 - KR); **G11B 7/1374** (2013.01 - KR); **G11B 7/0933** (2013.01 - EP); **G11B 7/0935** (2013.01 - EP); **G11B 7/22** (2013.01 - EP)

Citation (search report)
See references of WO 9854705A1

Designated contracting state (EPC)
FR NL

DOCDB simple family (publication)
WO 9854705 A1 19981203; CN 1355918 A 20020626; EP 0986812 A1 20000322; KR 19980086189 A 19981205

DOCDB simple family (application)
KR 9800075 W 19980401; CN 98806553 A 19980401; EP 98914129 A 19980401; KR 19970022465 A 19970531