

United States Patent and Trademark Office
Before the Patent Trial and Appeal Board

LG ELECTRONICS, INC. and
LG ELECTRONICS U.S.A., INC.,
Petitioner,

v.

TOSHIBA SAMSUNG STORAGE TECHNOLOGY KOREA CORPORATION,
Patent Owner.

Case IPR2015-01644
Patent 6,785,065

Petitioner's Demonstrative Exhibits for October 6, 2016 Oral Argument

Instituted Grounds

IV. ORDER

Accordingly, it is:

ORDERED that pursuant to 35 U.S.C. § 314(a) and 37 C.F.R. § 42.4, an *inter partes* review is hereby instituted based on the following grounds:

- A. claims 1, 2, and 5–9 as being unpatentable under § 103(a) over the combination of Akanuma and APA;
- B. claims 1, 2, and 5–9 as being unpatentable under § 103(a) over the combination of Akanuma, APA, and Ikegame;
- C. claims 3 and 4 as being unpatentable under § 103(a) over the combination of Akanuma, APA, and Wakabayashi;
- D. claims 3 and 4 as being unpatentable under § 103(a) over the combination of Akanuma, APA, Ikegame, and Wakabayashi; and

Institution Decision at 27-28.

U.S. Patent No. 6,785,065 (“the ’065 Patent”)

Title: Optical Pickup Actuator Driving Method and Apparatus Therefor

1. Field of the Invention

The present invention relates to an apparatus and a method of driving an optical pickup actuator, and more particularly, to an apparatus and a method of driving an optical pickup actuator in which a focus coil, a track coil, and a tilt coil which drive an optical pickup in a focus direction, a track direction, and a tilt direction, respectively, are provided at both sides of a bobbin to secure the remaining sides of the bobbin, and the focus coil is also used as the tilt coil.

'065 patent at 1:15-24.

Overview of the '065 Patent

FIG. 1 (PRIOR ART)

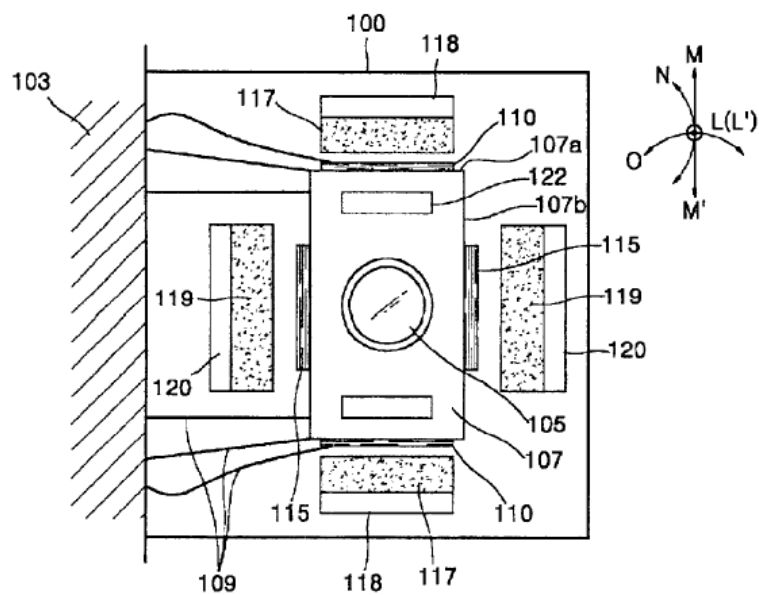
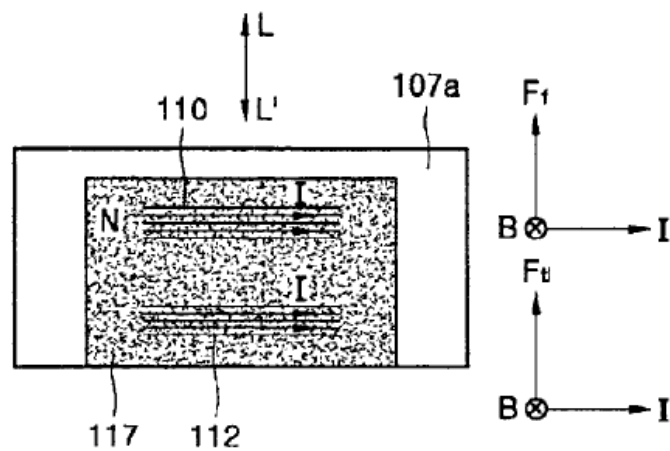
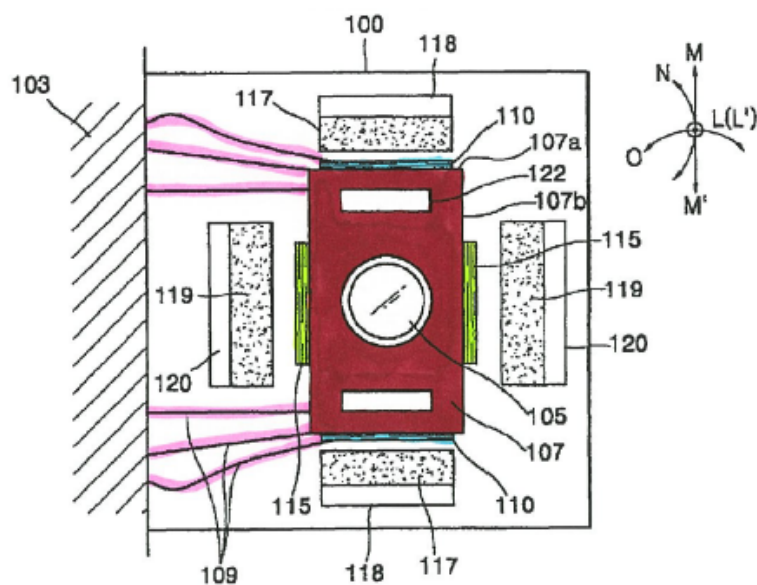


FIG. 2A (PRIOR ART)



Overview of the '065 Patent

FIG. 1 (PRIOR ART)



Purported Shortcomings of Conventional Actuator

However, since the optical pickup actuator is very small, where all four side surfaces of the bobbin 107 are used to install the focus coils 110, the track coils 115, or the tilt coils 112, a sufficient space may not be present to install the wires 109. In addition, when the number of the wires 109 increases, it is very difficult to attach the additional wire(s) in such a small space. Accordingly, the defective ratio of the conventional optical pickup actuators increases.

'065 patent at 2:57-64.

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