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Hasman et al.

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[54] METHOD AND APPARATUS FOR STORAGE AND RETRIEVAL WITH MULTILAYER OPTICAL DISKS

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[21] Appl. No.: **402,227**

[22] Filed: **Mar. 10, 1995**

[51] Int. Cl.⁶ **G11B 7/00**

[52] U.S. Cl. **369/109; 369/94; 369/102; 369/112; 369/275.1; 369/44.23**

[58] Field of Search **369/44.23, 109, 369/102, 94, 103, 99, 112, 116, 275.1, 275.3, 275.4; 365/124, 125**

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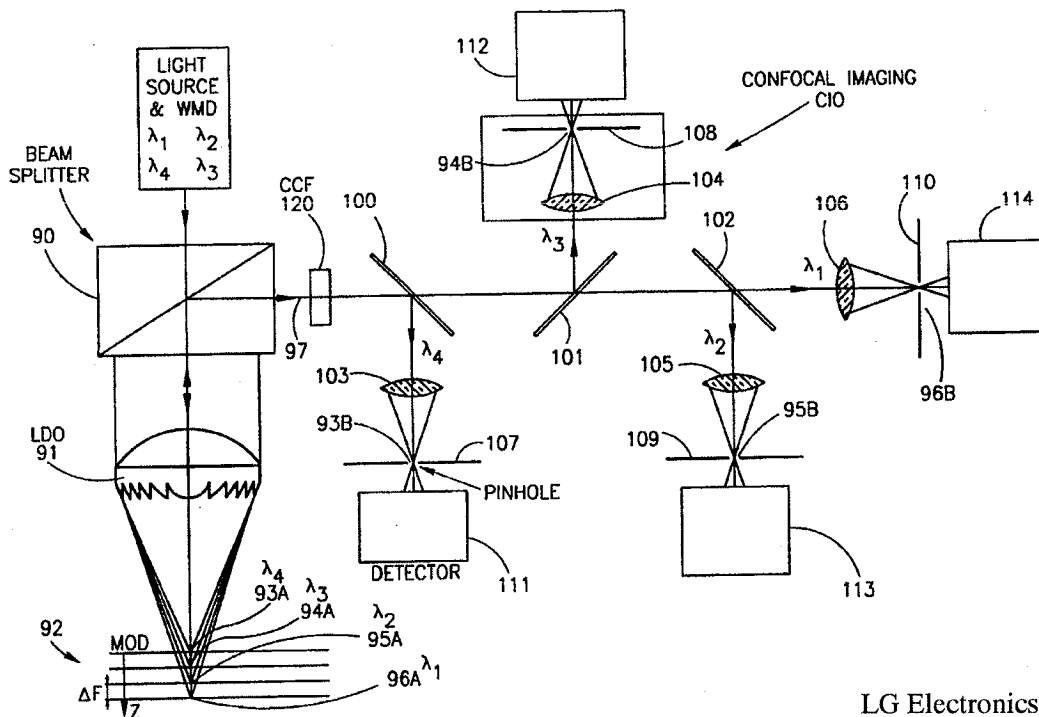
Primary Examiner—Loha Ben

Attorney, Agent, or Firm—Mark M. Friedman

[57] ABSTRACT

A multilayer optical disk system, which includes an optical disk unit having a number of connected optical disks. A number of light sources, such as diode lasers, are used to provide a number of light beams of different wavelengths. A wavelength multiplexer combines the light beams into a single beam which is then axially dispersed so that light of different wavelengths are simultaneously focuses onto the different optical disks. A wavelength demultiplexer splits light reflected from the optical disks according to wavelength to produce separate beams which are then separately detected.

35 Claims, 8 Drawing Sheets



LG Electronics, Inc. et al.
EXHIBIT 1007

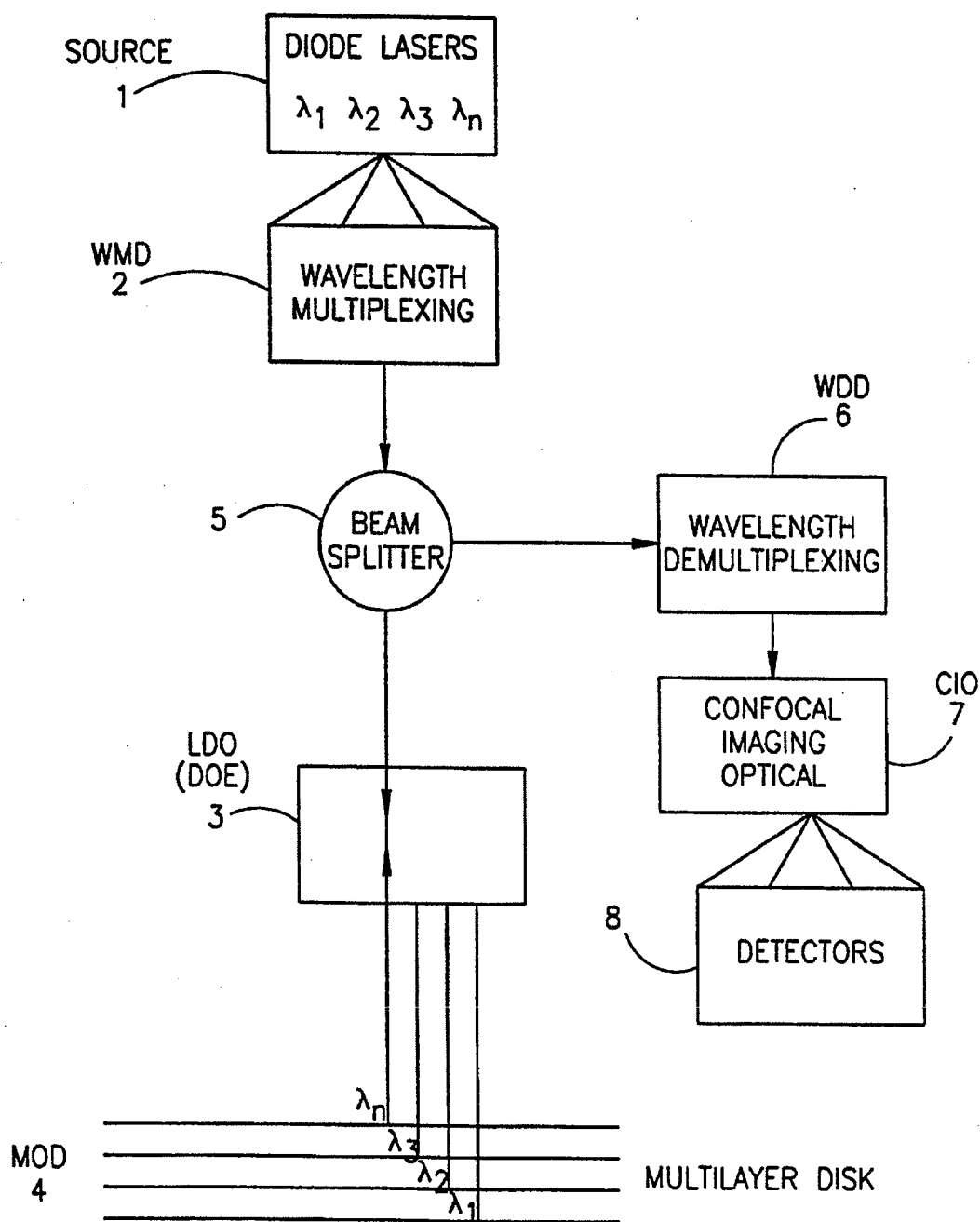


FIG. 1

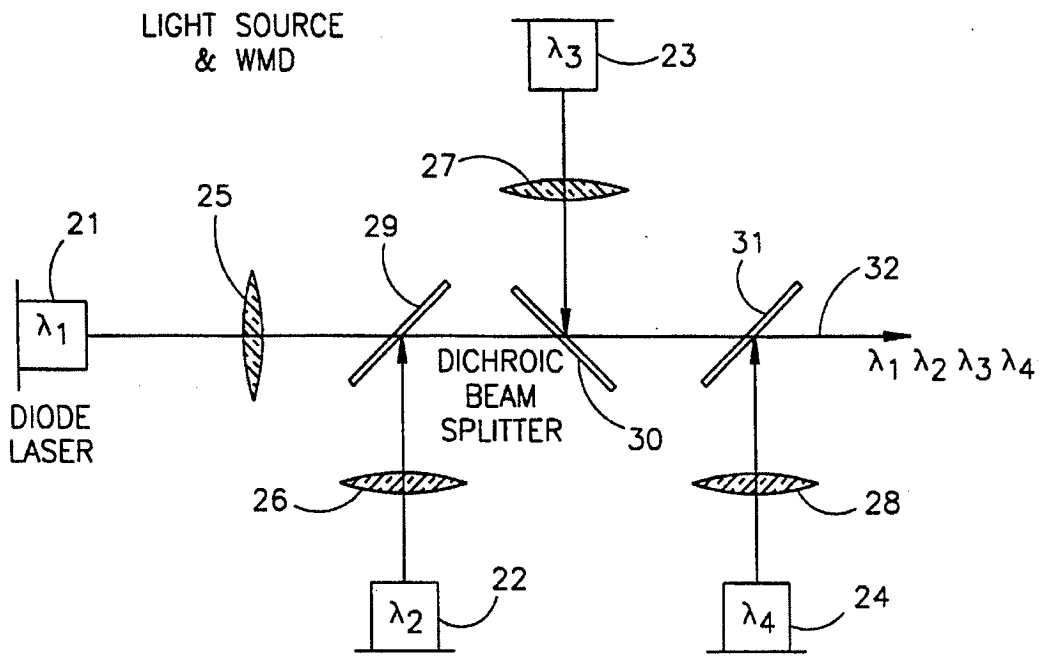


FIG. 2

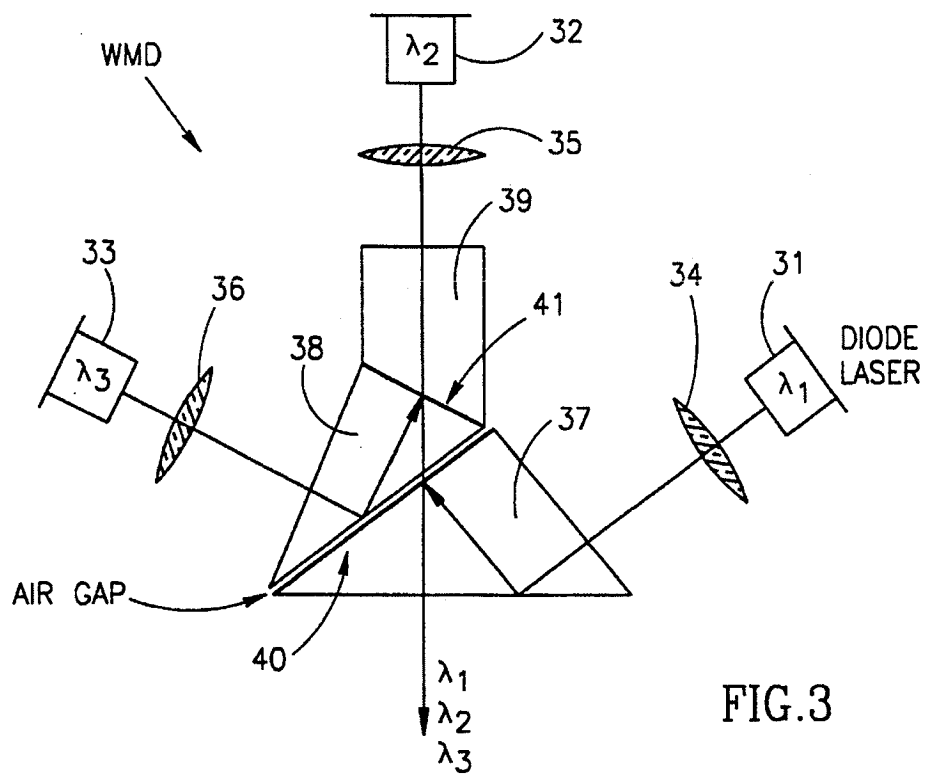


FIG. 3

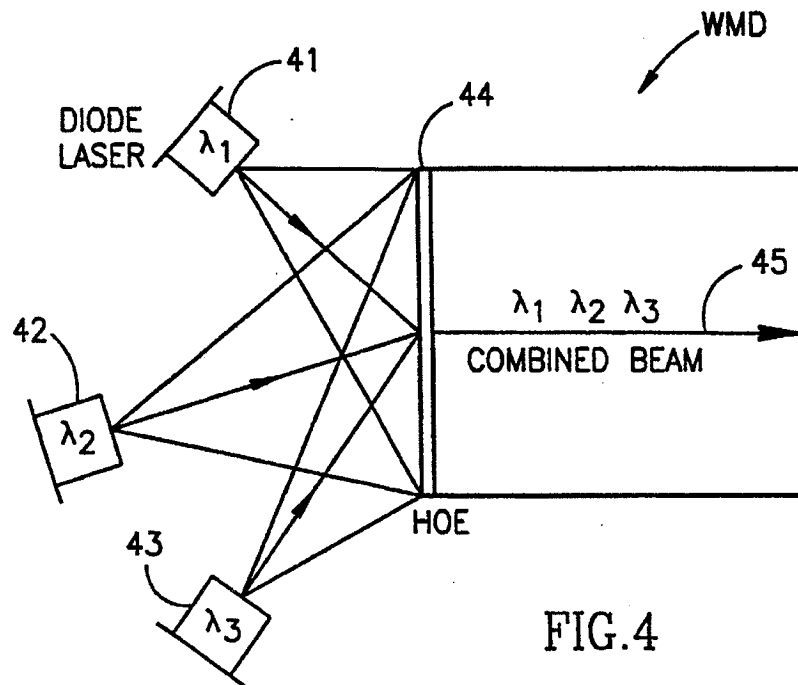


FIG. 4

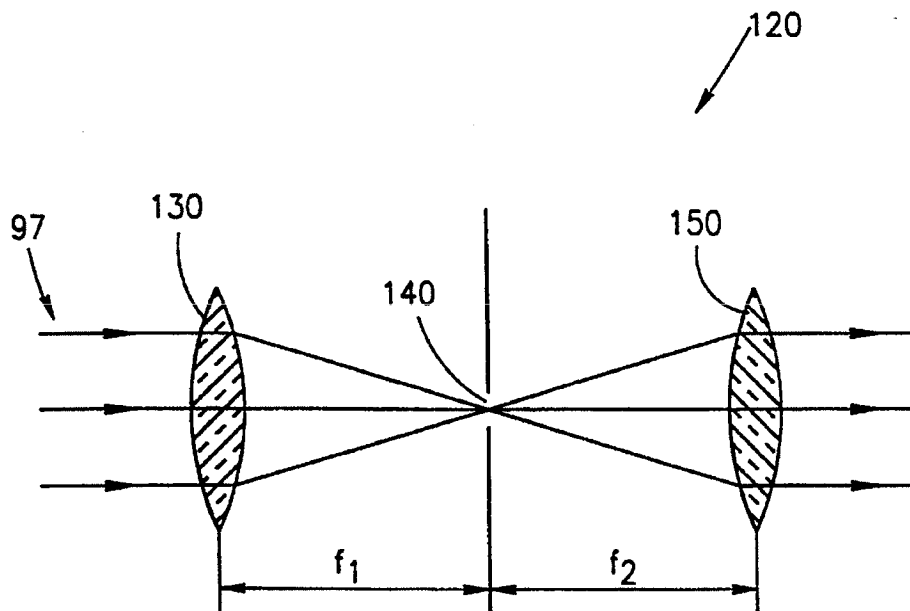


FIG. 9B

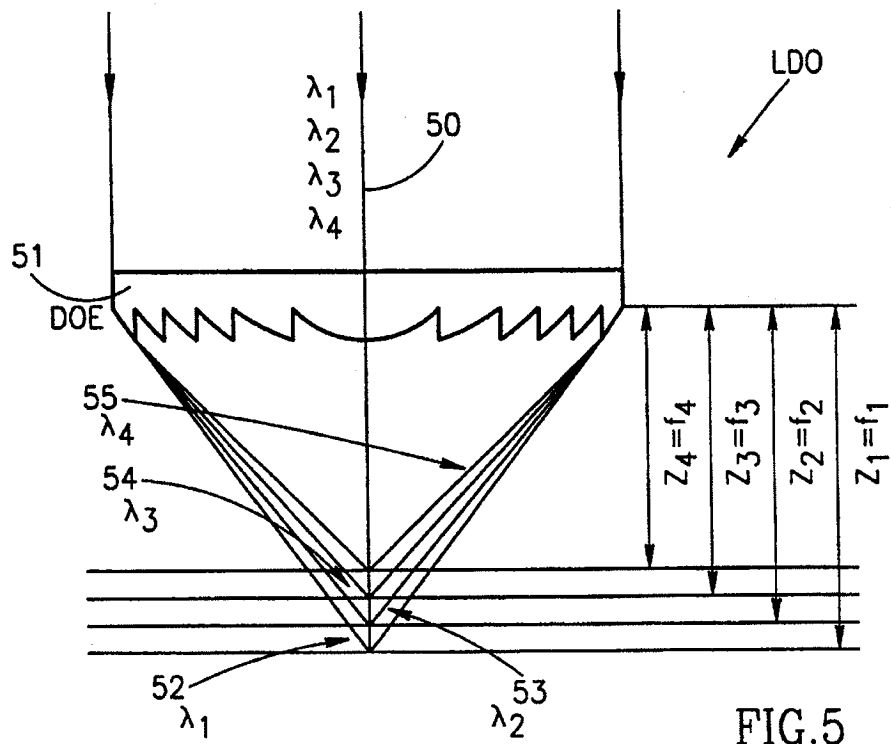


FIG. 5

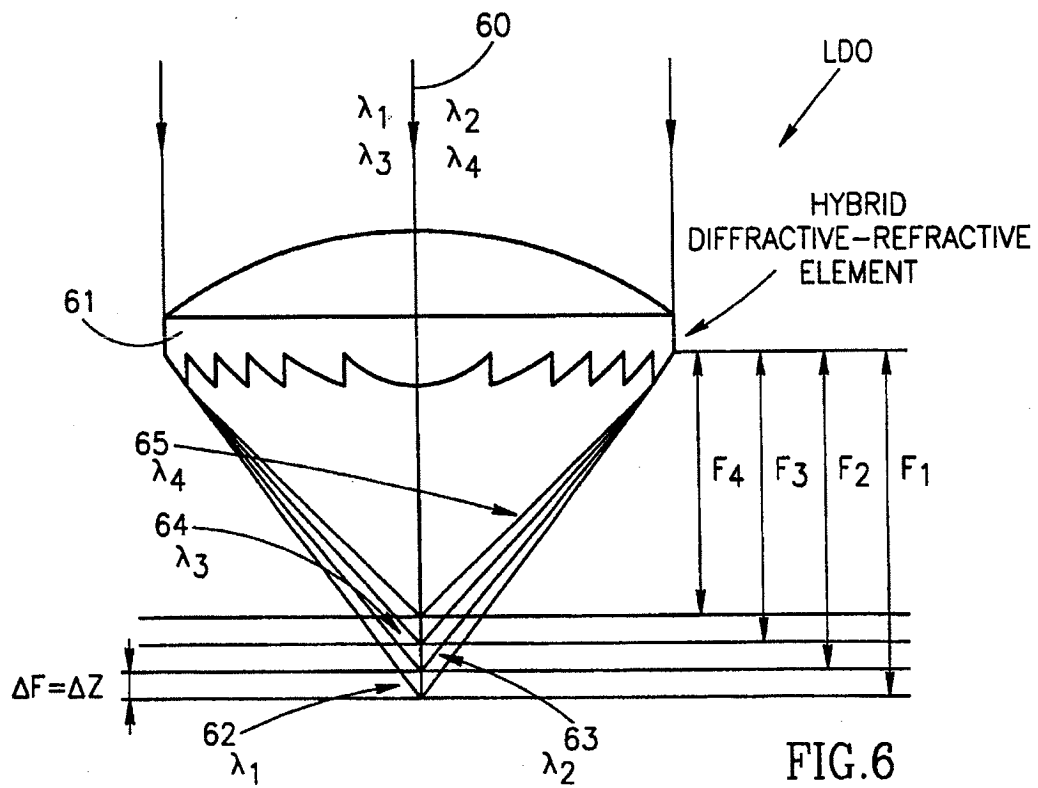


FIG. 6

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