METHOD OF WRITING TO AN OPTICAL DATA STORAGE MEDIUM, METHOD OF ~~READING~~ READING FROM AN OPTICAL DATA STORAGE MEDIUM, AND OPTICAL DATA STORAGE MEDIUM

ABSTRACT

According to embodiments of the present invention, a method of writing to an optical data storage medium is provided. The method includes receiving a plurality of data elements, each data element having one of a plurality of values, wherein each value of the plurality of values is associated with a wavelength, and forming, for each data element, a nanostructure arrangement on the optical data storage medium, the nanostructure arrangement configured to reflect light of the wavelength associated with the value of the data element in response to a light irradiated on the optical data storage medium. According to further embodiments of the present invention, a method of reading from an optical data storage medium and an optical data storage medium are also provided.

Figure 3

METHOD OF WRITING TO AN OPTICAL DATA STORAGE MEDIUM, METHOD OF READING FROM AN OPTICAL DATA STORAGE MEDIUM, AND OPTICAL DATA STORAGE MEDIUM

ABSTRACT

According to embodiments of the present invention, a method of writing to an optical data storage medium is provided. The method includes receiving a plurality of data elements, each data element having one of a plurality of values, wherein each value of the plurality of values is associated with a wavelength, and forming, for each data element, a nanostructure arrangement on the optical data storage medium, the nanostructure arrangement configured to reflect light of the wavelength associated with the value of the data element in response to a light irradiated on the optical data storage medium. According to further embodiments of the present invention, a method of reading from an optical data storage medium and an optical data storage medium are also provided.

Figure 3