

A NEW OPTICAL MEMORY TECHNOLOGY

ABSTRACT

A method and apparatus (301) for detecting information stored on an optical memory diffraction surface (101). A reading light beam (102) illuminates the surface
5 (101). At least one diffracted light beam (104) is produced, with the light beam (104) having a predetermined intensity pattern. A sensor (309) is illuminated by a diffracted beam (308) and is used for authentication purposes. A second sensor (319) is illuminated by a second diffracted beam (308), which second beam (308) passes through an optical lens (imaging lens) (304) so that an image is produced on the sensor (319). The sensor
10 (309) produces a signal for authentication purposes which signal can be compared to a "template" signal. The signal generated by the sensor (319) has additional information to that information contained in the signal produced by the sensor (309):

This Sheet Has Been Replaced

