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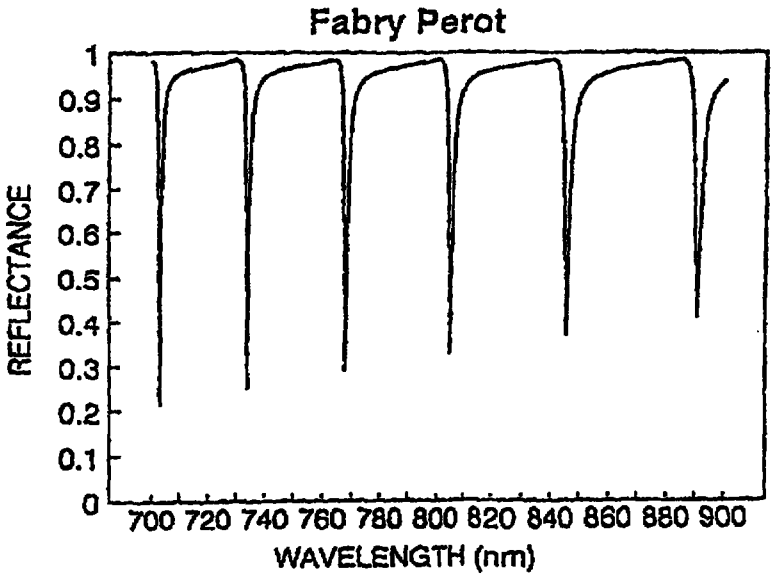
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(54) Title: OPTICAL RECORDING MEDIUM BASED ON FABRY-PEROT PRINCIPLE



(57) Abstract

The optical recording medium has a grooved transparent substrate superposed by a recording layer comprising a partial mirror, a buffer layer, a thick reflective layer, and optionally a protective coating. By virtue of the partial mirror, the buffer layer, and the thick reflective layer, a Fabry-Perot etalon is created. Information can be written by deformation of one or more of the partial mirror, the buffer layer, the thick reflective layer, or the substrate. The deformation effects change or destroy the Fabry-Perot, and a decrease in reflection is created. As deformation effects are used for writing, a non-liquid crystalline high-molecular weight material can be used in the buffer layer. The tracking (keeping the writing laser within the grooves) can take place by employing the difference in reflected amplitude or phase of the partial mirror/substrate interface within and outside the groove.