URN etd-0407109-183719-1580
Author Yu-Wei Chang
Author's Email Address No Public.
Statistics This thesis had been viewed 49 times. Download 0 times.
Department
Year 2007
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title Fabrication of Polymer Nano-Bragg Grating Waveguide Devices
Date of Defense 0000-00-00
Page Count 45
Keyword
Soft molding
Photolithography
Holographic interference

Abstract
In this paper, we proposed a novel process, which incorporates with the soft molding and photolithography techniques. For the Bragg grating fabrication, the stamping transfer technique, incorporated with holographic interference technology, was used to transfer the grating to the PDMS soft film. And then, we use the PDMS polymer mold to fabricate Nano-Bragg polymer grating waveguide on the OG polymer by using of the soft molding and photolithography techniques. This technique has the advantages such as simple treatment, low loss and fabrication cost.
Advisory Committee Wen-Chung Chang - advisor

Files No Any Full Text File.
Date of Submission 2008-06-27