

ABSTRACT

METHOD OF MANUFACTURING META LENSES AND META LENS
STRUCTURE

A method of manufacturing meta lenses includes: depositing an optical material over a substrate; spin coating a nano-imprint resist over the optical material; contacting a mold with the nano-imprint resist, wherein the mold has a plurality of circular cylindrical recesses spaced apart from each other and a protruding portion; curing the nano-imprint resist after the mold is in contact with the nano-imprint resist to form a nano-imprint resist pattern, wherein the nano-imprint resist pattern has a plurality of circular cylindrical thick portions respectively corresponding to the circular cylindrical recesses of the mold and a thin portion corresponding to the protruding portion of the mold; removing the thin portion and remaining the circular cylindrical thick portions; and patterning the optical material according to the remaining circular cylindrical thick portions to form a plurality of circular cylindrical meta lenses. A meta lens structure is also provided.

[FIG. 1F]