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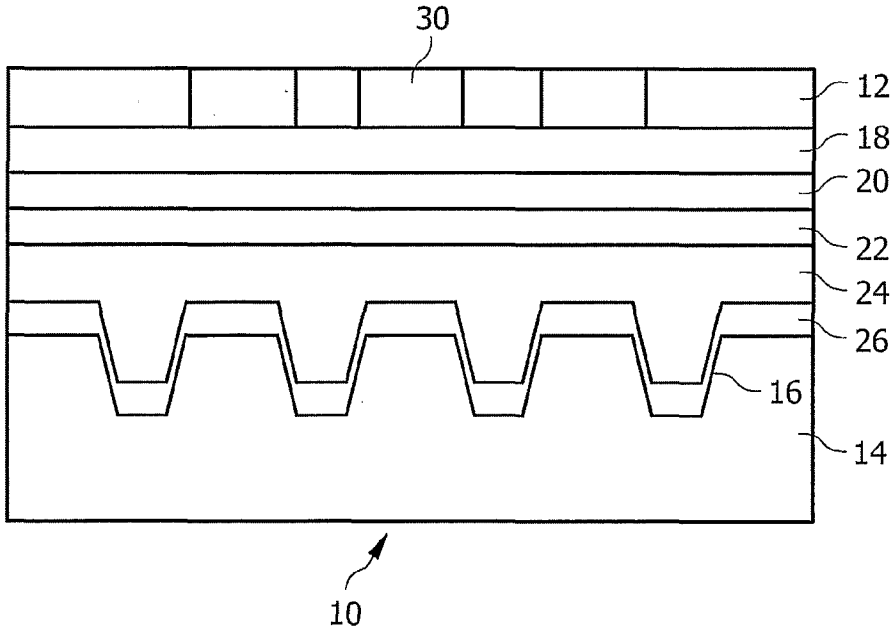
(54) **Title:** MASTER SUBSTRATE AND METHOD OF MANUFACTURING A HIGH-DENSITY RELIEF STRUCTURE



(57) **Abstract:** The present invention relates to a master substrate (10) for optical recording comprising a recording layer (12) and a substrate layer (14), the recording layer comprises a growth dominated phase-change material, the chemical properties with respect to chemical agents of which may be altered due to a phase change induced by projecting light on the recording layer. For tracking purposes, the substrate layer comprises pre-grooves (16). The present invention further relates to a method of manufacturing a stamper for replicating a high-density relief structure.

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