554

Patent Number(s): CN102508375-A

Title: Metal photonic crystal terahertz tunable filter has photon crystal metal column array that is provided with positive and negative electrodes

Inventor Name(s): CHANG S; FAN F

Patent Assignee(s): UNIV NANKAI (UNAN)

Derwent Primary Accession No.: 2012-J48479

Abstract: NOVELTY - The tunable filter is composed of photonic crystal metal column array, high density polyethylene box, the terahertz source and LCD. The photonic crystal metal column array is installed in high density polyethylene box. The photon crystal metal column array is provided with positive and negative electrodes and made of copper, aluminum, silver and gold. The silicon chip or polymer coating technology is performed.

USE - Metal photonic crystal terahertz tunable filter.

ADVANTAGE - The operating voltage of filter can be reduced. The response time of the tunable filter can be improved. The tuning range of filter for stable transmission can be improved. The transmission loss can be reduced.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for method for controlling metal photonic crystal terahertz tunable filter.

Derwent Class Code(s): A89 (Photographic, laboratory equipment, optical); P81 (Optics); U14 (Memories, Film and Hybrid Circuits, Digital memories); W02 (Broadcasting, Radio and Line Transmission Systems)

Derwent Manual Code(s): A04-G02E; A12-E; A12-E14; A12-L03; A12-L03B; U14-K01A1B; U14-K01A3; W02-A05; W02-A08G

IPC: G02F-001/133; G02F-001/1333; H01P-001/20