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Patent Number(s): CN102417153-A

Title: Terahertz frequency range adjustable super absorber electrostatic micro cantilever beam structure, has opening ring which is connected with power supply lead wire, and formed on insulating layer

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Abstract: NOVELTY - The absorber has a metal layer (2) which is formed on a low resistance silicon substrate (1). An insulating layer (3) is formed on the metal layer. An opening ring (4) connected with a power supply lead wire (5) is formed on the insulating layer. A micro-cantilever beam (7) is fixed on an anchor point (6), and one end the opening ring.

USE - Terahertz frequency range adjustable super absorber electrostatic micro cantilever beam structure.

ADVANTAGE - The absorption efficiency and detection sensitivity the terahertz wave can be improved.

DESCRIPTION DRAWING(S) - The drawing shows a perspective view the terahertz frequency range adjustable super absorber.

Low resistance silicon substrate (1)

Metal layer (2)

Insulating layer (3)

Opening ring (4)

Power supply lead wire (5)

Anchor point (6)

Micro-cantilever beam (7)

Derwent Class Code(s): V06 (Electromechanical Transducers and Small Machines)

Derwent Manual Code(s): V06-V01C; V06-V01K1; V06-V02G

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