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Patent Number(s): CN102495508-A
Title: High-speed terahertz wave switching device, has terahertz wave output end whose side is fixed at end part of terahertz wave detector that is utilized for detecting terahertz wave output, and laser emitter fixed to laser input end
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Abstract: NOVELTY - The device has a rectangular polymer unit (8) provided with a rectangular metal thin film (7). The metal thin film is provided with a high resistance semi-cylindrical glass prism (6). A laser emitter (4) is fixed to an external laser input end (5). The high resistance semi-cylindrical glass prism is provided with a terahertz wave input end (1) and connected with a terahertz wave detector (3). A side of a terahertz wave output end (2) is fixed at an end part of the terahertz wave detector that is utilized for detecting terahertz wave output.
USE - High-speed Terahertz wave switching device.
ADVANTAGE - The device has simple structure, quick response speed and low manufacturing cost, and achieves terahertz wave imaging effect and realizes terahertz wave communication.
DESCRIPTION OF DRAWING(S) - The drawing shows a side view of a high-speed terahertz wave switching device.
Terahertz wave input end (1)
Terahertz wave output end (2)
Terahertz wave detector (3)
Laser emitter (4)
External laser input end (5)
High resistance semi-cylindrical glass prism (6)
Rectangular metal thin film (7)
Rectangular polymer unit (8)
Derwent Class Code(s): A89 (Photographic, laboratory equipment, optical); P81 (Optics); S03 (Scientific Instrumentation, photometry, calorimetry); V07 (Fibre-optics and Light Control); W02 (Broadcasting, Radio and Line Transmission Systems)
Derwent Manual Code(s): A12-E; A12-L03; S03-E05; V07-F02A; W02-A04A
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