638

Patent Number(s): JP2012098264-A

Title: Apparatus for adjusting frequency light beam light source that is utilized for transmitter/receiver terahertz spectroscopy system, has receiver for acquiring electromagnetic radiation from photoconductive switch

Inventor Name(s): LOGAN R T; DEMERS J R

Patent Assignee(s): EMCORE CORP (EMCO-Non-standard)

Derwent Primary Accession No.: 2012-G12713

Abstract: NOVELTY - The apparatus has a first housing (100) bonded with two pigtail optical fibers to adjust frequency two lasers. A photoconductive switch (204) is operated by a light beam from one the optical fibers for generating larger frequency range electromagnetic radiation. A second housing (201) contains a radiator (205). A receiver (208) acquires the electromagnetic radiation from the photoconductive switch, and is operated by the light beam from the other optical fiber. A third housing (202) contains a photoconductive switch (207) to produce electric signal to be analyzed by the first housing.

USE - Apparatus for adjusting frequency a light beam a light source that is utilized for a transmitter/receiver a terahertz spectroscopy system.

ADVANTAGE - The apparatus accurately adjusts the frequency the laser beam and facilitates detection and removal noise.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for adjusting frequency a light beam a light source that is utilized for a transmitter/receiver a terahertz spectroscopy system.

DESCRIPTION DRAWING(S) - The drawing shows a block diagram a frequency domain terahertz spectrometer.'(Drawing includes non-English language text)'

Housing (100, 201, 202)

Photoconductive switches (204, 207)

Radiator (205)

Receiver (208)

Drawing:

Derwent Class Code(s): S03 (Scientific Instrumentation, photometry, calorimetry); V07 (Fibre-optics and Light Control)

Derwent Manual Code(s): S03-E04A5; V07-F01A1

IPC: G01N-021/35

Patent Details:

Patent Number Publ. Date Main IPC Week Page Count Language

JP2012098264-A 24 May 2012 G01N-021/35 201236 Pages: 40 Japanese

Application Details and Date:

JP2012098264-A JP257263 29 Oct 2010

Priority Application Information and Date:

JP257263 29 Oct 2010