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Patent Number(s): GB2486098-A
Title: Terahertz investigation system for measuring samples having orientation not controlled for terahertz measurement, e.g., tablets, has delivery unit that moves samples but does not control orientation or exact position samples
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Derwent Primary Accession No.: 2012-G33264
Abstract: NOVELTY - The terahertz investigation system has a terahertz radiation emitter (105) for irradiating a sample provided in a sample space (107). A detector (109) detects radiation reflected from the sample space. A delivery unit moves the samples with respect to the sample space but does not control the orientation or exact position the samples. The delivery unit comprises a conveyor belt (101), chute or container.
USE - Terahertz investigation system for measuring samples having orientation not controlled for terahertz measurement. Uses include but are not limited to tablets or other solid dosage forms in pharmaceutical applications, paint thickness, uniformity and contaminants/corrosion on car, aircraft and ship bodies, composite material inspection on aircraft, postal and packaging inspection, and foodstuff and food product inspection.
ADVANTAGE - Allows good terahertz signals to be acquired from rapidly moving samples which do not have fixed orientation or orientation which can be controlled by terahertz investigation system.
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method for investigating samples having varying positions or orientations.
DESCRIPTION DRAWING(S) - The drawing shows a schematic diagram the terahertz investigation system.
Conveyor belt (101)
Tablet (103)
Terahertz radiation emitter (105)
Sample space (107)
Detector (109)
Derwent Class Code(s): B04 (Natural products and polymers, testing, compounds unknown structure); D13 (Other foodstuffs and treatment); S02 (Engineering Instrumentation, ing equipment, general testing methods); S03 (Scientific Instrumentation, photometry, calorimetry)
Derwent Manual Code(s): B11-C07B6; B11-C07B7; B12-K04; D03-K03; D03-K04; S02-A03B4; S03-E04A5; S03-E04X
IPC: G01B-011/27; G01N-021/35; G01N-021/95
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Cited Patent(s):

GB2486098-AEP238534-A ARIEL INDS PLC (ARIE-Non-standard); EDWARDS C K (EDWA-Individual)EDWARDS C

EP1749201-A1 PICOMETRIX LLC (PICO-Non-standard) ZIMDARS D; STUK G; WILLIAMSON S

US4868901-A SCI-AGRA INC (SCIA-Non-standard) KNISKERN R J; DYGERT R W; BLOMENBERG T; CHESNEY C F

US5357441-A RAYTHEON CO (RAYT) PETTY J S; FERGUSON C; ADAMSKI J R; MUSIL J E

US2006056586-A1 UETAKE N (UETA-Individual); LEE Y (LEEY-Individual); TANAKA S (TANA-Individual) UETAKE N; LEE Y; TANAKA S

WO2006085904-A2 L-3 COMMUNICATIONS SECURITY & DETECTION (LTHR-Non-standard) CONNELLY J; STILLSON J H