

Patent Number(s): WO2012077769-A1

Title: Terahertz light generating apparatus used in e.g. industry, has resonator structure which outputs light with resonant frequency corresponding to frequency difference several incident lights

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Abstract: NOVELTY - The apparatus (1) has resonator structure (12) which outputs the incident light. The input unit inputs incident lights into the resonator structure such that incident lights are provided with the different polarization state and different frequency. The angle is inclined from the direction vertical to the main surface in the resonator structure. The resonator structure outputs the light with resonant frequency corresponding to frequency difference the several incident lights. Temperature control unit controls resonant frequency the incident light.

USE - Terahertz light generating apparatus used in industry, medical field, agriculture field, and security places.

ADVANTAGE - The light with desired frequency can be generated efficiently. The terahertz light generating apparatus is convenient to use. The structure apparatus is simplified so that size apparatus is reduced. The output strength the intensity light can be increased effectively.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for light generating method.

DESCRIPTION DRAWING(S) - The drawing shows a schematic view the terahertz light generating apparatus. (Drawing includes non-English language text)

Terahertz light generating apparatus (1)

Laser oscillation units (10,11)

Resonator structure (12)

Mirror (14)

Lens (15)

Drawing:

Derwent Class Code(s): P81 (Optics); V07 (Fibre-optics and Light Control)

Derwent Manual Code(s): V07-K04

IPC: G02F-001/37

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GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT;
LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PE; PG;
PH; PL; PT; QA; RO; RS; RU; RW; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN;
TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW