

PATENT NO. 346112
SOLUTION GROWN ORGANIC SINGLE CRYSTAL N- BENZYL-2-METHYL-4-NITROANILINE AND A METHO OF GROWING THEREOF FOR TERAHERTZ APPLICATIONS

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APPLICANT

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ABSTRACT

The present invention generally relates to a solution grown organic single crystal of N-benzyl-2-methyl-4-nitroaniline (BNA). More particularly, the present invention relates to a method of growing organic single crystal of N-benzyl-2-methyl-4-nitroaniline (BNA) using polar aprotic solvent. The solution grown organic single crystal N-benzyl-2-methyl-4-nitroaniline (BNA) has a characteristic X-ray powder diffraction pattern with major peaks at 2θ (hkl) of 8.308 (020), 26.876 (211), and 16.672 (040) values. The organic single crystal N-benzyl-2-methyl-4-nitroaniline (BNA) is grown using polar aprotic solvent. Further, the present invention relates to generation of Terahertz (THz) waves using solution grown organic single crystal of BNA

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CLAIM 1

A solution grown organic single crystal N-benzyl-2-methyl-4-nitroaniline (BNA), has a characteristic X-ray powder diffraction pattern with major peaks at 2θ (hkl) of 8.308 (020), 26.876 (211), and 16.672 (040) values, wherein said organic single crystal N-benzyl-2-methyl-4-nitroaniline (BNA) is grown using polar aprotic solvent.