

LICENSING OPPORTUNITY

Single Photon source

Keywords

Single photon, semiconductor, exciton-polaritons, subpoissonian statistics, quantum boxes, zero dimensional

Patent status

US Patent 7,888,692 granted

Licensing / collaboration

Non-exclusive or exclusive licenses / Research collaborations.

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Description

Single photon source

Innovative aspects

- Based on a non-linear process that directly produces light in single photon states
- Uses zero-dimensional polariton states

Main advantages

- Simple Alignment
- Possible repetition rate up to 100 Ghz
- Collection efficiency up to 100%
- Very low wavelength linewidth

Potential Commercial Applications

- Quantum information and quantum cryptography