Title (en)
GENERATING A COHERENT BEAM OF BOSONS.

Title (de)
ERZEUGUNG EINES KOHÄRENTEN BOSONSTRAHLS.

Title (fr)
PRODUCTION D'UN FAISCEAU COHERENT DE BOSONS.

Publication
EP 0232330 A4 19880623 (EN)

Application
EP 86904738 A 19860725

Priority
AU PH163885 A 19850725

Abstract (en)
[origin: WO8700681A1] A macroscopic baser (boson equivalent of a laser). Bosons such as deuterium particles generated by an ion source (2) are injected into a vacuum tube (1), so as to execute motion on a circulatory path therein. Movement of the bosons in this path may be effected by the use of bending magnets (3) and (4) and focusing of the bosons into a circulating stream is assisted by quatropole magnets (5) and (6). A coherent light beam from a laser is directed into the stream of bosons within the vacuum chamber to effect induced scattering of the bosons within that stream whereby to cause the stream to develop as a coherent beam of bosons which is directed outwardly from the baser by suitable deflection of the circulating stream, such as de-energization of the bending magnets. In other embodiments, the bosons may be reflected in linear fashion.

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H01J 27/02; G21B 1/02; G21K 1/00

IPC 8 full level
G21B 1/00 (2006.01); **G21B 3/00** (2006.01); **G21K 1/00** (2006.01); **H01J 27/02** (2006.01)

CPC (source: EP KR)
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Citation (search report)
- [A] US 4246067 A 19810120 - LINLOR WILLIAM I
- [A] PHYSICAL REVIEW A, vol. 27, no. 5, May 1983, pages 2555-2565, The American Physical Society, New York, US; E. LEDINEGG et al.: "Coherence of neutron fields"
- See references of WO 8700681A1

Designated contracting state (EPC)
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