

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.

IPC 1-7

**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)

**G21K 1/00** (2013.01 - EP); **H01J 27/02** (2013.01 - KR); **Y02E 30/10** (2013.01 - EP)

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)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**WO 8700681 A1 19870129**; BR 8606780 A 19871013; CN 86105630 A 19870225; DD 251664 A5 19871118; DK 152787 A 19870325; DK 152787 D0 19870325; EP 0232330 A1 19870819; EP 0232330 A4 19880623; ES 2000736 A6 19880316; FI 871300 A0 19870325; FI 871300 A 19870325; GB 2191336 A 19871209; GB 2191336 B 19900321; GB 8706734 D0 19870423; GR 861904 B 19861124; HU 203165 B 19910528; HU T44871 A 19880428; IL 79437 A0 19861031; IL 79437 A 19901105; IS 1436 B6 19900716; IS 3122 A7 19870126; JO 1489 B1 19880310; JP S63500675 A 19880310; KR 880700446 A 19880315; NZ 216956 A 19911223; PL 260805 A1 19870323; PT 83069 A 19860801; PT 83069 B 19920831; TR 22948 A 19881208; YU 134386 A 19901231; ZA 865567 B 19870325

DOCDB simple family (application)

**AU 8600212 W 19860725**; BR 8606780 A 19860725; CN 86105630 A 19860725; DD 29280086 A 19860723; DK 152787 A 19870325; EP 86904738 A 19860725; ES 8600546 A 19860724; FI 871300 A 19870325; GB 8706734 A 19860725; GR 860101904 A 19860721; HU 307386 A 19860724; IL 7943786 A 19860717; IS 3122 A 19860708; JO P19891489 A 19860721; JP 50440486 A 19860725; KR 870700266 A 19870325; NZ 21695686 A 19860724; PL 26080586 A 19860725; PT 8306986 A 19860725; TR 38986 A 19860721; YU 134386 A 19860725; ZA 865567 A 19860725