

Title (en)  
Method and apparatus for generating energy through inertial confinement fusion

Title (de)  
Verfahren und Vorrichtung zur Erzeugung von Energie mittels Trägheitsfusion

Title (fr)  
Procédé et appareil de génération d'énergie par fusion par confinement inertiel

Publication  
**EP 2680271 A1 20140101 (EN)**

Application  
**EP 12173401 A 20120625**

Priority  
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Abstract (en)  
The present invention relates to a method of generating energy by nuclear fusion. The method comprises the steps of: bringing (100) hydrogen in a gaseous state into contact with a hydrogen transfer catalyst (14) configured to cause a transition of the hydrogen from the gaseous state to an ultra-dense state; collecting (101) the hydrogen in the ultra-dense state on a carrier (3) configured to substantially confine the hydrogen in the ultra-dense state within a fuel collection portion (16) of the carrier; transporting (102) the carrier to an irradiation location (9); and subjecting (103), at the irradiation location, the hydrogen in the ultra-dense state to irradiation having sufficient energy to achieve break-even in energy generation by nuclear fusion.

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IPC 8 full level (invention and additional information)  
**G21B 1/19 (2006.01); G21B 3/00 (2006.01)**

CPC (invention and additional information)  
**G21B 1/19 (2013.01); G21B 3/008 (2013.01); Y02E 30/16 (2013.01)**

Citation (applicant)

- P. U. ANDERSSON; B. LONN; L. HOLMLID: "Efficient source for the production of ultradense deuterium D(-1) for laser-induced fusion (ICF)", REVIEW OF SCIENTIFIC INSTRUMENTS, vol. 82, 2011, pages 013503, XP012146084, DOI: doi:10.1063/1.3514985
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Citation (search report)

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**2014-01-01** [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO

- Countries : BA ME