

Title (en)  
FUSION APPARATUS AND METHODS

Title (de)  
FUSIONSVORRICHTUNG UND VERFAHREN

Title (fr)  
APPAREIL ET PROCEDES DE FUSION

Publication  
**EP 1642301 A2 20060405 (EN)**

Application  
**EP 04754972 A 20040612**

Priority  

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Abstract (en)  
[origin: WO2005001845A2] Improved apparatus adapted to utilize available fuels and components to produce practical nuclear fusion in a comparatively confined space. In an exemplary embodiment, one or more glass fibers are used as a containment medium for the nuclear fuel (e.g., Deuterium or Lithium). The fibers are also optionally tapered and porous in order to permit introduction of gaseous fuel along a portion of their length. A high-intensity energy source (e.g., pulsed femto-second laser) is used to excite and contain the fuel to fusion temperature through, inter alia, pondermotive forces generated within the fiber(s). The effluent from the device can be used for any number of purposes, such as to drive a magneto-hydrodynamic generator in order to generate electricity.

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**G21B 1/00**

IPC 8 full level  
**G21B 1/00** (2006.01); **H05H 1/22** (2006.01)

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