

Title (en)  
METHOD FOR PRODUCING HEAT

Title (de)  
VERFAHREN ZUR ERZEUGUNG VON WÄRME

Title (fr)  
PROCEDE DE PRODUCTION DE CHALEUR

Publication  
**EP 0731973 A4 19961204 (EN)**

Application  
**EP 95911550 A 19941201**

Priority  
• US 9413824 W 19941201  
• US 16094193 A 19931203  
• US 34025694 A 19941116

Abstract (en)  
[origin: WO9516995A1] Employing cavitation as an energy source, excess energy is produced, as well as transmutation of elements. Particularly, deuterium oxide (14) is subjected to cavitation under transient bubble formation conditions in the presence of a metal surface (26), whereby collapse of the bubbles at the metal surface results in the production of heat and the transmutation of the hydrogen isotope. Various metals can be used, as well as various parameters as to temperature, pressure, acoustic energy (12), acoustic frequency, and composition of the reactants, which may be employed to vary the results.

IPC 1-7  
**G21B 1/00**

IPC 8 full level  
**G21B 3/00** (2006.01)

CPC (source: EP)  
**G21B 3/00** (2013.01); **Y02E 30/10** (2013.01)

Citation (search report)  
• [XY] PATENT ABSTRACTS OF JAPAN vol. 16, no. 5 (P - 1295) 8 January 1992 (1992-01-08)  
• [Y] LIPSON ET AL.: "Initiation of fusion reactions in media containing deuterium by cavitation", SOVIET PHYSICS TECHNICAL PHYSICS, vol. 37, no. 12, December 1992 (1992-12-01), NEW YORK US, pages 1190 - 1194, XP000424457  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 15, no. 24 (P - 1156) 21 January 1991 (1991-01-21)  
• [A] LIPSON ET AL.: "Generation of nuclear fusion products by the combined action of cavitation and electrolysis of a titanium surface in deuterated electrolytes", TECHNICAL PHYSICS, vol. 38, no. 7, July 1993 (1993-07-01), INSTITUTE OF PHYSICS US, pages 623 - 627, XP000448026  
• [A] P.H. FANG: "Deuterium fusion through nonequilibrium induction", FUSION TECHNOLOGY, vol. 19, no. 2, March 1991 (1991-03-01), LAGRANGE PARK, ILLINOIS US, pages 369 - 370, XP002015200  
• See references of WO 9516995A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9516995 A1 19950622**; AU 1907895 A 19950703; AU 688475 B2 19980312; CA 2178086 A1 19950622; EP 0731973 A1 19960918; EP 0731973 A4 19961204; JP H10508372 A 19980818

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**US 9413824 W 19941201**; AU 1907895 A 19941201; CA 2178086 A 19941201; EP 95911550 A 19941201; JP 51679395 A 19941201