

Title (en)

A LIQUID BASED CAVITATION NUCLEAR REACTOR INCLUDING A SYSTEM FOR EXTERNALLY PROCESSING THE REACTOR LIQUID

Title (de)

KERNREAKTOR MIT KAVITATIONEN AUF FLÜSSIGKEITSBASIS MIT EINEM SYSTEM ZUR EXTERNEN VERARBEITUNG DER REAKTORFLÜSSIGKEIT

Title (fr)

REACTEUR NUCLEAIRE A CAVITATION A BASE DE LIQUIDE, COMPORTANT UN SYSTEME DE TRAITEMENT EXTERNE DU LIQUIDE DU REACTEUR

Publication

EP 1309973 A2 20030514 (EN)

Application

EP 00993200 A 20001117

Priority

- US 0031697 W 20001117
- US 44840299 A 19991124
- US 44875399 A 19991124

Abstract (en)

[origin: WO0139200A2] A liquid based nuclear reactor that includes a reactor which, during operation, includes a liquid material interspersed by a plurality of cavitation bubbles. The liquid based nuclear reactor also includes a frequency source that outputs a frequency, and at least one acoustic driver coupled to the reactor at at least one predetermined location that is coupled to the frequency source and drives acoustic energy into the reactor to drive the cavitation bubbles through cavitation cycles to create nuclear reactions. The nuclear reactor also includes an external liquid processing system that includes a conduit that includes an inlet in fluid communication with the reactor, an outlet in fluid communication with the reactor and a pump therebetween. The pump pumps the liquid material through the liquid processing system with continuous flow.

IPC 1-7

G21B 1/00; **G21B 1/02**

IPC 8 full level

G21B 1/00 (2006.01); **G21C 1/00** (2006.01)

CPC (source: EP)

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Cited by

US10480851B2; US11408673B2; US11428463B2; US10663221B2; US11408676B2; US9441877B2; US10502483B2

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WO 0139200 A2 20010531; **WO 0139200 A3 20020926**; AU 2905301 A 20010604; EP 1309973 A2 20030514; EP 1309973 A4 20071226

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