

Radioactive Transmutation Patents

US Patent # 7,012,168

Boron-based containment matrix for the storage or transmutation of long-life radioactive elements

US Patent # 6,442,226

Accelerator-driven transmutation of spent fuel elements

Venneri, et al.

US Patent # 6,233,299

Assembly for transmutation of a long-lived radioactive material

Wakabayashi

US Patent # 6,233,298

Apparatus for transmutation of nuclear reactor waste

Bowman

US Patent # 5,848,110

Method and apparatus for transmutation of atomic nuclei

Maenchen, et al.

US Patent # 5,764,715

Method and apparatus for transmutation of atomic nuclei

Maenchen, et al.

US Patent # 5,160,696

Apparatus for nuclear transmutation and power production using an intense accelerator-generated thermal neutron flux

Bowman

US Patent # 6,738,446

System and method for radioactive waste destruction

Venneri, et al.

AU2001297883

Method And Apparatus For The Transmutation Of Nuclear Waste With Tandem Production Of Tritium

El-Sharawy El-Badawy A

JP2009128300

Element Transmutation Method And Energy Generation Method

Yabuuchi Norio

JP2009128052

Nuclear Battery

Ito Takehiko; Iwamura Yasuhiro

RU2343575

Method Of Long-Living Radionuclides Fixation For Storage And Transmutation
Tikhonov Valerij Ivanovich [RU]; Kapustin Valerian Konstantinovich

JP2008308383

Method For Manufacturing Silicon Single Crystal
Yamato Mitsuhiro

RU2340966

Method Of Fixation Of Radioisotope I-129
Tikhonov Valerij Ivanovich [RU]; Kapustin Valerian Konstantinovich

CN101325092

Solution Stack For Burning Plutonium And Transmutation Of Neptunium-237 Or Americium-241
Yinghua Wu [CN]; Lianjie Wang

US2008240330

Compact Device For Dual Transmutation For Isotope Production Permitting Production Of Positron
Emitters, Beta Emitters And Alpha Emitters Using Energetic Electrons
Holden Charles

US2008232532

Apparatus And Method For Generation Of Ultra Low Momentum Neutrons
Larsen Lewis G [US]; Widom Alan

NL1033078

Energy Generating Process, By Applying Voltage Between Cathode Comprising Transmutation Elements
And Anode In Reactor Vessel Containing Plasma
GEUS ARIE MELIS DE [US]

MX9702606

Transmutation Reactor To Improve Fuel Combustion In Internal Combustion Engines.
Lara Estanislao Martinez

US2008123793

Thermal Power Production Device Utilizing Nanoscale Confinement
Loan James F [US]; Cooper William

NL1031962

Energy Generating Process For Producing Electricity, Comprises Electron Discharge In Flow Of Nitrogen
Or Air In Order To Cause Nuclear Transmutation Of Nitrogen Into Carbon Monoxide
Geus Arie Melis [DE]

US2007297554

Method And System For Production Of Radioisotopes, And Radioisotopes Produced Thereby
Lavie Efraim [IL]; Silverman Ido

CN101061552
System And Method For Radioactive Waste Destruction
Mike Venneri Francesco Baxter

JP2007322202
Method, Device And Program For Predicting Nuclear Reaction In Flocculation System, And Method For
Detecting Substance After Nuclide Transmutation
Ito Takehiko; Iwamura Yasuhiro

WO2006005813
Method And Device For Transmutation Of Nucleons Free Of Prior Or Permanent Plasma
Vitrac Geraud

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Nuclear Conversion Process.
Westcott Carl Henry

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Neutron-Driven Element Transmuter
Carlo Rubbia

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Method For Increasing Nuclear Transmutation Quantity From Nuclear Transmutation Device And
Nuclear Transmutation Device
Sakano Mitsuru; Ito Takehiko

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Electron Capture By Magnetic Resonance
Bondoc Edwin L [PH]
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Plasma-Free Nucleon Transmutation Comprises Use Of Piezoelectric Actuators To Produce Energy
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Vitrac Geraud Vincent

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Processing Radioactive Materials With Hydrogen Isotope Nuclei
Dash John

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Nuclide Transmutation Device And Nuclide Transmutation Method
Iwamura Yasuhiro [JP]; Itoh Takehiko

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System And Method For Radioactive Waste Destruction
Venneri Francesco [US]; Baxter Alan

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Method For Transmutation Of Long-Lived Radioactive Isotopes Into Short-Lived Or Stable Isotopes

Buttsev Vladimir Stepanovich [RU]; Buttseva Galina Lecnidovna

JP2004117106

Structure For Nuclide Transmutation And Method For Forming It

Ito Takehiko; Sakano Mitsuru

RU2210630

Facility For Generation Of Gas Mixture And Transmutation Of Nuclei Of Atoms Of Chemical Elements

Kanarev F M; Podobedov V

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Atomic Structure Recognition And Modification Method And Apparatus

Letovsky Howard

Also Published As: Us2005145031 // Us2005155340 (A1)

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Nuclide Transmutation Device And Nuclide Transmutation Method

Iwamura Yasuhiro [JP]; Itoh Takehiko

WO0231833

Nuclear Transmutational Processes

De Geus Arie Melis

HU0103762

Multi-Step, Time Programmed Procedure For The Transmutation Of Radioactive Wastes And Multi-

Region Salt Melt Apparatus For Carrying Out The Procedure

Csom Gyula Dr [Hu]; Aszodi Attila Dr

GR3036593

Method For Preparing Highly Radioactive Materials For Transmutation And/Or Burn-Up

Fuchs Claude [Fr]; Fourcaudot Serge

US2002169351

Remediation Of Radioactive Waste By Stimulated Radioactive Decay

Paul Brown

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Method And Device For Transmutation Of Radioactive Wastes

Levadnyj Valentin Aleksandrovi [By]; Rutkovskaja Kristina Konstanti

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Method For Solidifying Solutions Of Long-Living Radionuclides

Dzekun E G; Korchenkin K

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Accelerator-Driven Transmutation Of Spent Fuel Elements
Venneri Francesco [US]; Williamson Mark

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Radioactive Waste Processing Technique
Taratorin B I; Ivanov S D

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Apparatus For Transmutation Of Nuclear Reactor Waste
Bowman Charles

US6233299
Assembly For Transmutation Of A Long-Lived Radioactive Material
Wakabayashi Toshio

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Transmutation Of Isotopes With Long Half Life
Hora Heinrich

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Method And Apparatus For Transmutation Of Atomic Nuclei
Maenchen John Eric [US]; Ruiz Carlos Leon [US]

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Low Temperature Electrolytic Nuclear Transmutation
Patterson James A [US]; Miley George

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Nuclear Transmuted Elements Having Unnatural Isotopic Distributions By Electrolysis And Method Of
Production
Patterson James A [US]; Miley George

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Accelerator-Driven Transmutation Of Spent Fuel Elements
Venneri Francesco [US]; Williamson Mark

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Accelerator-Driven Transmutation Of Spent Fuel Elements
Venneri Francesco [US]; Williamson Mark

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System, Electrolytic Cell And Method For Producing Excess Heat And For Transmutation By Electrolysis
Patterson James A [US]; Miley George

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Method For Producing Stable Isotopes Due To Nuclear Transmutation, Such As Low-Temperature Nuclear Fusion Of Elements In Microbiological Cultures

Vysotskij Vladimir I [RU]; Kornilova Alla

RU2034414

Accelerating Complex For Transmutation Of Nuclear Production Waste

Danilov Mikhail M [RU]; Katarzhnov Yuriy

GB2246467

Transmutation Treatment Of Radioactive Wastes

Konashi Kenji; Sasao Nobuyuki

US4721596

Method For Net Decrease Of Hazardous Radioactive Nuclear Waste Materials

Marriott Richard [US]; Henyey Frank

EP0030404

Method For Net Decrease Of Hazardous Radioactive Nuclear Waste Materials.

Marriott Richard; Henyey Frank

GB970091

Transmutation Of Elements

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