

CPC**COOPERATIVE PATENT CLASSIFICATION****G21G****CONVERSION OF CHEMICAL ELEMENTS; RADIOACTIVE SOURCES**

(applications of radiation in general [G21H 5/00](#); handling particles, e.g. neutrons, or electromagnetic radiation not otherwise provided for [G21K](#))

Guidance heading:**G21G 1/00**

Arrangements for converting chemical elements by electromagnetic radiation, corpuscular radiation or particle bombardment, e.g. producing radioactive isotopes (separation of different isotopes of the same element [B01D 59/00](#))

[G21G 1/0005](#)

- . { [Isotope delivery systems](#) (use of radioisotopes as tracers [G21H 5/02](#)) }

[G21G 1/001](#)

- . { [Recovery of specific isotopes from irradiated targets](#) }

[G21G 1/02](#)

- . in nuclear reactors (by thermonuclear reactions [G21B](#) ; conversion of nuclear fuel [G21C](#))

[G21G 1/04](#)

- . outside nuclear reactors or particle accelerators

[G21G 1/06](#)

- .. by neutron irradiation

[G21G 1/08](#)

- ... accompanied by nuclear fission

[G21G 1/10](#)

- .. by bombardment with electrically charged particles ([irradiation devices G21K 5/00](#))

[G21G 1/12](#)

- .. by electromagnetic irradiation, e.g. with gamma or X-rays ([applications of radiation G21H 5/00](#); [irradiation devices G21K 5/00](#))

G21G 4/00

Radioactive sources (producing neutrons or other subatomic particles, X- or gamma rays, in fusion reactors [G21B](#) , in nuclear reactors [G21C](#) , by cosmic radiation [G21H 7/00](#), in accelerators [H05H](#) ; X-ray tubes [H01J 35/00](#); gamma masers [H01S 4/00](#))

[G21G 4/02](#)

- . Neutron sources

[G21G 4/04](#)

- . Radioactive sources other than neutron sources ([radioactive dressings A61N 5/1029](#))

[G21G 4/06](#)

- .. characterised by constructional features

[G21G 4/08](#)

- ... specially adapted for medical application ([radiation therapy using radioactive sources A61N 5/10](#))

[G21G 4/10](#)

- .. with radium emanation

G21G 5/00

Alleged conversion of chemical elements by chemical reaction

G21G 7/00

Conversion of chemical elements not provided for in other groups of this subclass

Guidance heading:**G21G 2001/00**

Arrangements for converting chemical elements by electromagnetic radiation, corpuscular radiation or particle bombardment, e.g. producing radioactive isotopes

(separation of different isotopes of the same element [B01D 59/00](#))

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|----------------|---|
| G21G 2001/001 | . { Recovery of specific isotopes from irradiated targets } |
| G21G 2001/0015 | .. Fluorine |
| G21G 2001/0021 | .. Gallium |
| G21G 2001/0026 | .. Arsenic |
| G21G 2001/0031 | .. Rubidium |
| G21G 2001/0036 | .. Molybdenum |
| G21G 2001/0042 | .. Technetium |
| G21G 2001/0047 | .. Rhodium |
| G21G 2001/0052 | .. Palladium |
| G21G 2001/0057 | .. Indium |
| G21G 2001/0063 | .. Iodine |
| G21G 2001/0068 | .. Cesium |
| G21G 2001/0073 | .. Rhenium |
| G21G 2001/0078 | .. Thallium |
| G21G 2001/0084 | .. Bismuth |
| G21G 2001/0089 | .. Actinium |
| G21G 2001/0094 | .. Other isotopes not provided for in the groups listed above |