

**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](#) )

**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 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

[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**