

**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**