

**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**