

**ECLA****EUROPEAN CLASSIFICATION****G21G****CONVERSION OF CHEMICAL ELEMENTS; RADIOACTIVE SOURCES**

(applications of radiation in general [G21H5/00](#); handling particles, e.g. neutrons, or electromagnetic radiation not otherwise provided for G21K)

**G21G1/00**

**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 [B01D59/00](#))

## G21G1/00D

- [N: Isotope delivery systems (use of radioisotopes as tracers [G21H5/02](#))] [N0906]

## G21G1/00R

- [N: Recovery of specific isotopes from irradiated targets] [N0906]

## G21G1/02

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

## G21G1/04

- outside nuclear reactors or particle accelerators

## G21G1/06

- . by neutron irradiation

## G21G1/08

- . . accompanied by nuclear fission

## G21G1/10

- . . by bombardment with electrically charged particles (irradiation devices [G21K5/00](#))

## G21G1/12

- . . by electromagnetic irradiation, e.g. with gamma or X-rays (applications of radiation [G21H5/00](#); irradiation devices [G21K5/00](#))

**G21G4/00**

**Radioactive sources** (producing neutrons or other subatomic particles, X- or gamma rays, in fusion reactors [G21B](#), in nuclear reactors [G21C](#), by cosmic radiation [G21H7/00](#), in accelerators [H05H](#); X-ray tubes [H01J35/00](#); gamma masers [H01S4/00](#))

## G21G4/02

- Neutron sources

## G21G4/04

- Radioactive sources other than neutron sources (radioactive dressings [A61N5/12](#))

## G21G4/06

- . characterised by constructional features

## G21G4/08

- . . specially adapted for medical application (radiation therapy using radioactive sources [A61N5/10](#))

## G21G4/10

- . with radium emanation

**G21G5/00**

**Alleged conversion of chemical elements by chemical reaction**

**G21G7/00**

**Conversion of chemical elements not provided for in other groups of this subclass** [N0901]