

**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**