

# CPC COOPERATIVE PATENT CLASSIFICATION

## G PHYSICS (NOTES omitted)

### NUCLEONICS

#### G21 NUCLEAR PHYSICS; NUCLEAR ENGINEERING

**G21H OBTAINING ENERGY FROM RADIOACTIVE SOURCES; APPLICATIONS OF RADIATION FROM RADIOACTIVE SOURCES, NOT OTHERWISE PROVIDED FOR; UTILISING COSMIC RADIATION** (measurement of nuclear or X-radiation [G01T](#); fusion reactors [G21B](#); nuclear reactors [G21C](#); lamps in which a gas filling is excited to luminescence by external corpuscular radiation or by radioactive material structurally associated with the lamp [H01J 65/04](#), [H01J 65/06](#))

#### **WARNING**

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

**1/00 Arrangements for obtaining electrical energy from radioactive sources, e.g. from radioactive isotopes {, nuclear or atomic batteries}**

- 1/02 . Cells charged directly by beta radiation
- 1/04 . Cells using secondary emission induced by alpha radiation, beta radiation, or gamma radiation
- 1/06 . Cells wherein radiation is applied to the junction of different semiconductor materials
- 1/08 . Cells in which radiation ionises a gas in the presence of a junction of two dissimilar metals, i.e. contact potential difference cells
- 1/10 . Cells in which radiation heats a thermoelectric junction or a thermionic converter
- 1/103 . . {Cells provided with thermo-electric generators}
- 1/106 . . {Cells provided with thermionic generators}
- 1/12 . Cells using conversion of the radiation into light combined with subsequent photoelectric conversion into electric energy

**3/00 Arrangements for direct conversion of radiation energy from radioactive sources into forms of energy other than electric energy, e.g. {into} light {or mechanic energy}**

- 3/02 . in which material is excited to luminesce by the radiation (lamps in which a gas filling or screen or coating is excited to luminesce by radioactive material structurally associated with the lamp [H01J 65/00](#))

**5/00 Applications of radiation from radioactive sources or arrangements therefor, not otherwise provided for**

- 5/02 . as tracers

**7/00 Use of effects of cosmic radiation**