

# 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; UTILISING COSMIC RADIATION (measurement of nuclear or X-radiation [G01T](#); fusion reactors [G21B](#); nuclear reactors [G21C](#); semiconductor devices sensitive to electro-magnetic or corpuscular radiation [H01L 31/00](#))

<b>1/00</b>	<b>Arrangements for obtaining electrical energy from radioactive sources, e.g. from radioactive isotopes{, nuclear or atomic batteries}</b>	<b>5/00</b>	<b>Applications of radiation from radioactive sources or arrangements therefor (producing mutation in plants <a href="#">A01H 1/06</a>; preservation of dairy products <a href="#">A23C</a>; preservation of foodstuffs <a href="#">A23L 3/26</a>; for therapeutic purposes <a href="#">A61N 5/10</a>; in chemical, physical or physicochemical processes in general <a href="#">B01J 19/08</a>; in electrostatic separation <a href="#">B03C 3/38</a>; for after-treatment of coatings applied as liquids or other fluent materials <a href="#">B05D 3/06</a>; for action between electric vehicles and tracked apparatus <a href="#">B61L 1/10</a>, <a href="#">B61L 3/06</a>; introducing isotopes into organic compounds <a href="#">C07B 59/00</a>; for preparation of organic chemical compounds <a href="#">C07</a>, <a href="#">C08</a>, e.g. <a href="#">C08F 2/46</a>; for treating macromolecular substances or articles made therefrom <a href="#">B29C 71/04</a>, <a href="#">C08J 3/28</a>, <a href="#">C08J 7/18</a>; for cracking of hydrocarbon oils <a href="#">C10G 15/00</a>, <a href="#">C10G 32/04</a>; for reforming naphtha <a href="#">C10G 35/16</a>; preservation or ageing of products obtained from fermentation processes <a href="#">C12H 1/06</a>, <a href="#">C12H 1/16</a>; for bleaching fibres <a href="#">D06L 4/50</a>; measuring <a href="#">G01</a>; irradiation devices, gamma- or X-ray microscopes <a href="#">G21K</a>; in discharge tubes <a href="#">H01J</a>; apparatus for generating ions to be introduced into non-enclosed gases, e.g. into the atmosphere, <a href="#">H01T 23/00</a>; for carrying-off electrostatic charges <a href="#">H05F 3/06</a>)</b>
1/02	• Cells charged directly by beta radiation		
1/04	• Cells using secondary emission induced by alpha radiation, beta radiation, or gamma radiation (discharge tubes <a href="#">H01J 40/00</a> )		
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 (discharge tubes <a href="#">H01J</a> )		
1/10	• Cells in which radiation {of disintegration heat} heats a thermoelectric junction or a thermionic converter (discharge tubes functioning as thermionic generators <a href="#">H01J 45/00</a> ; thermo electric devices comprising a junction of dissimilar materials <a href="#">H01L 35/00</a> {Devices where heating occurs from fission reactions <a href="#">G21C 3/04</a> })		
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		
<b>3/00</b>	<b>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} (lasers <a href="#">H01S 3/00</a>; {gamma masers <a href="#">H01S 4/00</a>})</b>	<b>5/02</b>	<b>as tracers {(medicinal preparations containing radioactive substances <a href="#">A61K 51/00</a>; investigating or analysing biological material <a href="#">G01N 33/48</a>)}</b>
3/02	• in which material is excited to luminesce by the radiation ({luminescent substances containing radioactive material <a href="#">C09C 1/00</a> }; lamps in which a gas filling or screen or coating is excited to luminesce by radioactive material structurally associated with the lamp <a href="#">H01J 65/00</a> )	<b>7/00</b>	<b>Use of effects of cosmic radiation</b>