

## SECTION G — PHYSICS

### G21 NUCLEAR PHYSICS; NUCLEAR ENGINEERING

**G21F PROTECTION AGAINST X-RADIATION, GAMMA RADIATION, CORPUSCULAR RADIATION OR PARTICLE BOMBARDMENT; TREATING RADIOACTIVELY CONTAMINATED MATERIAL; DECONTAMINATION ARRANGEMENTS THEREFOR** (radiation protection by pharmaceutical means A61K 8/00, A61Q 17/04; in cosmonautic vehicles B64G 1/54; combined with a reactor G21C 11/00; combined with X-ray tubes H01J 35/16; combined with X-ray apparatus H05G 1/02)

#### 1/00 Shielding characterised by the composition of the material

- 1/02 • Selection of uniform shielding materials
- 1/04 • • Concretes; Other hydraulic hardening materials
- 1/06 • • Ceramics; Glasses; Refractories (cermets G21F 1/08)
- 1/08 • • Metals; Alloys; Cermets, i.e. sintered mixtures of ceramics and metals
- 1/10 • • Organic substances; Dispersions in organic carriers
- 1/12 • Laminated shielding materials

#### 3/00 Shielding characterised by its physical form, e.g. granules, or shape of the material

- 3/02 • Clothing
- 3/025 • • Clothing completely surrounding the wearer [5]
- 3/03 • • Aprons [5]
- 3/035 • • Gloves (mounting means on glove boxes G21F 7/053) [5]
- 3/04 • Bricks; Shields made up therefrom

#### 5/00 Transportable or portable shielded containers

- 5/002 • Containers for fluid radioactive wastes [5]
- 5/005 • Containers for solid radioactive wastes, e.g. for ultimate disposal [5]
- 5/008 • • Containers for fuel elements [5]
- 5/012 • • • Fuel element racks in the containers [5]
- 5/015 • for storing radioactive sources, e.g. source carriers for irradiation units; Radioisotope containers [5]
- 5/018 • • Syringe shields or holders (syringe shielding for applying radioactive material to the body A61M 36/08) [5]
- 5/02 • with provision for restricted exposure of a radiation source within the container
- 5/04 • • Means for controlling exposure, e.g. time, size of aperture (controlling exposure to X-radiation H05G 1/30)
- 5/06 • Details of, or accessories to, the containers [5]
- 5/08 • • Shock-absorbers, e.g. impact buffers for containers [5]
- 5/10 • • Heat-removal systems, e.g. using circulating fluid or cooling fins [5]

- 5/12 • • Closures for containers; Sealing arrangements [5]
- 5/14 • • Devices for handling containers or shipping-casks, e.g. transporting devices [5]

#### 7/00 Shielded cells or rooms

- 7/005 • Shielded passages through walls; Locks; Transferring devices between rooms (between glove-boxes G21F 7/047) [5]
- 7/01 • • Transferring by fluidic means [5]
- 7/015 • Room atmosphere, temperature or pressure control devices [5]
- 7/02 • Observation devices permitting vision but shielding the observer
- 7/03 • • Windows, e.g. shielded [5]
- 7/04 • Shielded glove-boxes
- 7/047 • • Shielded passages; Closing or transferring means between glove-boxes [5]
- 7/053 • • Glove mounting means [5]
- 7/06 • Structural combination with remotely-controlled apparatus, e.g. with manipulators

#### 9/00 Treating radioactively contaminated material; Decontamination arrangements therefor [2, 5]

- 9/02 • Treating gases [2]
- 9/04 • Treating liquids [2]
- 9/06 • • Processing
- 9/08 • • • by evaporation; by distillation
- 9/10 • • • by flocculation
- 9/12 • • • by absorption; by adsorption; by ion-exchange
- 9/14 • • • by incineration; by calcination, e.g. desiccation
- 9/16 • • • by fixation in stable solid media
- 9/18 • • • by biological processes
- 9/20 • • Disposal of liquid waste
- 9/22 • • • by storage in a tank or other container
- 9/24 • • • by storage in the ground; by storage under water, e.g. in ocean
- 9/26 • • • by dilution in water, e.g. in ocean, in stream
- 9/28 • Treating solids [2]
- 9/30 • • Processing
- 9/32 • • • by incineration
- 9/34 • • Disposal of solid waste
- 9/36 • • • by packaging; by baling