

SECTION G — PHYSICS

G21 NUCLEAR PHYSICS; NUCLEAR ENGINEERING

G21K TECHNIQUES FOR HANDLING PARTICLES OR IONISING RADIATION NOT OTHERWISE PROVIDED FOR; IRRADIATION DEVICES; GAMMA RAY OR X-RAY MICROSCOPES [2]

Note(s) [2012.01]

In this subclass, the following term is used with the meaning indicated:

- "particle" means a molecular, atomic or subatomic particle.

1/00 Arrangements for handling particles or ionising radiation, e.g. focusing or moderating (ionising radiation filters G21K 3/00; production or acceleration of neutrons, electrically-charged particles, neutral molecular beams or neutral atomic beams H05H 3/00-H05H 15/00) [2]

1/02 • using diaphragms, collimators [2]

1/04 • • using variable diaphragms, shutters, choppers [2]

1/06 • using diffraction, refraction, or reflection, e.g. monochromators (G21K 1/10, G21K 7/00 take precedence) [2]

1/08 • Deviation, concentration, or focusing of the beam by electric or magnetic means (electron-optical arrangements in electric discharge tubes H01J 29/46) [2]

1/087 • • by electrical means [4]

1/093 • • by magnetic means [4]

1/10 • Scattering devices; Absorbing devices [2]

1/12 • • Resonant absorbers or driving arrangements therefor, e.g. for Mössbauer-effect devices [3]

1/14 • using charge exchange devices, e.g. for neutralising or changing the sign of the electrical charges of beams [3]

1/16 • using polarising devices, e.g. for obtaining a polarised ion beam [3]

3/00 ionising radiation filters, e.g. X-ray filters [2]

4/00 Conversion screens for the conversion of the spatial distribution of particles or ionising radiation into visible images, e.g. fluoroscopic screens [3]

5/00 Irradiation devices (adaptations of reactors to facilitate irradiation G21C 23/00; discharge tubes for irradiating H01J 33/00, H01J 37/00) [2]

5/02 • having no beam-forming means [2]

5/04 • with beam-forming means [2]

5/08 • Holders for targets or for objects to be irradiated [2]

5/10 • with provision for relative movement of beam source and object to be irradiated [3]

7/00 Gamma ray or X-ray microscopes [2]