



ABSTRACT

PHOTON POWER CELL

A photon power cell has at least one photo-electric cell (10), one or more layers of filter glass (15) and a radioactive-energised fluorescent material (20) which produces photons that are converted into electrical energy by the photo-electric cell (10). The photo-electric cell (10) may be a standard solar cell silicon wafer (14) with coatings (12) of phosphorus applied to the surfaces of the wafer (10). The layer of filter glass (15) contains lead, gold and/or graphite to protect the PN junction of the solar cell (10) from unwanted radioactive particles from the radioactive-energised fluorescent material (20), while being transparent to photons within a required frequency spectrum to produce a photo-electric effect. A plurality of solar cells (10) may be arranged in a stack interposed between layers or coatings of the radioactive-energised fluorescent material (20) to provide power cells which can power electrical devices such as from mobile telephones to electric vehicles for several years.