

BETAVOLTAIC POWER SOURCES FOR MOBILE DEVICE APPLICATIONS

ABSTRACT

A betavoltaic power source for mobile devices and applications and that includes a stacked configuration of isotope layers and energy conversion layers. The isotope layers have a half-life of between about 0.5 years and about 5 years and generate radiation with energy in the range from about 15 keV to about 200 keV. The betavoltaic power source is configured to provide sufficient power to operate the mobile device over its useful lifetime.

(Figure 6)