

ABSTRACT OF THE DISCLOSURE

ACCELERATOR SYSTEM

An accelerator system which can be implemented in a small size at low manufacturing cost and which can nonetheless ensure a high utilization efficiency of the ion beam. The system includes an ion source for generating an ion beam, pre-accelerators for accelerating the ion beam generated by the ion source, an radioisotope producing unit for irradiating a target with the ion beam accelerated by the pre-accelerators for producing radioisotopes, a synchrotron into which the ion beam accelerated by the pre-accelerators is injected and from which the ion beam is ejected after acceleration, and a selector electromagnet for introducing the ion beam accelerated by the pre-accelerators into either the radioisotope producing unit or the synchrotron.

(Figure 1)