

Title (en)

ION BEAM BUNDLING DEVICE WITH TWO ACCELERATION INTERVALS OF DIFFERING LENGTHS, WORKING IN A BROAD RANGE OF SPEEDS

Publication

EP 0012054 B1 19820602 (FR)

Application

EP 79400855 A 19791113

Priority

FR 7833103 A 19781123

Abstract (en)

[origin: US4284923A] Ion beam buncher-debuncher of the type having a resonant structure supplied by a high frequency or hyperfrequency generator, said structure comprising a cylindrical wall closed by two lateral faces respectively traversed by a supply pipe and a discharge pipe for the beam, together with a sliding tube arranged between the said pipes and defining with the supply pipe a first gap and with the discharge pipe a second gap, the ion beam being introduced into the said structure by the supply pipe firstly undergoing in the first gap a first action on the part of the electrical field therein, then traversing the sliding pipe and finally undergoing in the second gap a second action on the part of the electrical field therein and leaving the structure by the discharge pipe, wherein the two gaps defined by the sliding tube and the supply and discharge pipes are extremely asymmetrical, one of the two gaps offering the ion beam a much weaker electrical field than that offered by the other gap, so that the action exerted on the ions in said gap by the electrical field is negligible compared with that exerted in the other gap.

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IPC 8 full level

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