

Title (en)

DC HIGH VOLTAGE SOURCE AND PARTICLE ACCELERATOR

Title (de)

GLEICHSPANNUNGS-HOCHSPANNUNGSQUELLE UND TEILCHENBESCHLEUNIGER

Title (fr)

SOURCE DE HAUTE TENSION CONTINUE ET ACCÉLÉRATEUR DE PARTICULES

Publication

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Application

EP 11702038 A 20110202

Priority

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Abstract (en)

[origin: CA2790898A1] The invention relates to a DC high voltage source comprising: a capacitor stack having a first electrode (37), which can be brought to a first potential, having a second electrode (39), which is arranged concentrically with respect to the first electrode (37) and can be brought to a second potential that is different from the first potential, having at least one intermediate electrode (33), which is arranged concentrically between the first electrode (37) and the second electrode (39) and which can be brought to an intermediate potential that is between the first potential and the second potential, a switching device (35) for charging the capacitor stack, to which switching device the electrodes (33, 37, 39) of the capacitor stack are connected and which is designed such that upon operation of the switching device (35) the electrodes (33, 37, 39) of the capacitor stack that are arranged concentrically with respect to each other can be brought to increasing potential levels, wherein the switching device (35) of the capacitor stack comprises electron tubes (63), in particular controllable electron tubes. Furthermore, the invention relates to a particle accelerator comprising such a DC high voltage source.

IPC 8 full level

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