

Title (en)

METHOD AND DEVICE FOR THE DETECTION AND COUNTING OF ELECTRICALLY CHARGED PARTICLES, AND USE THEREOF

Title (de)

VERFAHREN UND VORRICHTUNG ZUM DETEKTIEREN UND ZÄHLEN ELEKTRISCH GELADENER TEILCHEN SOWIE VERWENDUNG HIEFÜR

Title (fr)

PROCEDE ET DISPOSITIF DE DETECTION ET DE COMPTAGE DE PARTICULES ELECTRIQUEMENT CHARGEES ET UTILISATION DE CE PROCEDE ET DE CE DISPOSITIF

Publication

EP 1958004 A1 20080820 (DE)

Application

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Priority

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Abstract (en)

[origin: WO2007065179A1] Disclosed are a method and a device for detecting and counting electrically charged particles, comprising the following steps: a detector (1) is provided to generate a charge pulse in the detector (1) when the particle penetrates the same; the charge pulse is converted into a current signal; the signal is sampled within an especially adjustable time window (?t), the difference (?u) of the signal value at the beginning and the end of the time window is determined; and a meter is increased when the determined difference (?u) of the signal values at the beginning and the end of the time window (?t) exceeds a particularly adjustable threshold value (?u_s). Such a method and such a device can be used especially for detecting protons in a particle accelerator or an irradiation system.

IPC 8 full level

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