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(54) Title: PARTICLE DETECTOR FOR DETECTING CHARGED PARTICLES

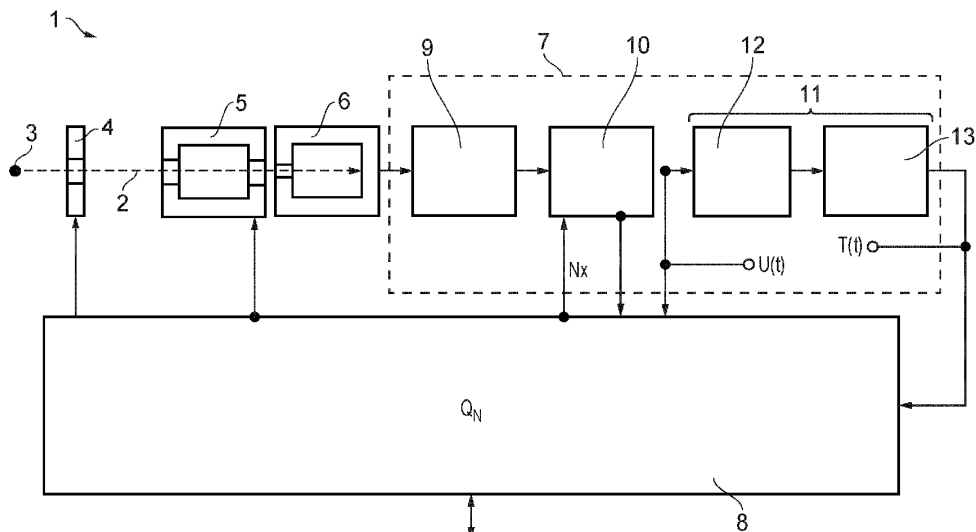


FIG. 1

(57) Abstract: The invention relates to a particle detector (1), comprising: a measuring electrode (6) for measuring charged particles (2), a detection device (7) for detecting the charged particles (2) measured by the measuring electrode (6), and an evaluation device (8) for determining the number (QN) of charged particles (2) detected by the detection device (7). The detection device (7) has a charge amplifier (10) for converting a charge signal (Q(t)) generated by the charged particles (2) into a voltage signal (U(t)) and an amplifier device (11) for amplifying the voltage signal (U(t)).

[Continued on next page]

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