

Title (en)

GAS IONISATION DETECTOR AND TOMODENSITOMETER USING SUCH A DETECTOR

Publication

EP 0029758 B1 19830420 (FR)

Application

EP 80401481 A 19801017

Priority

FR 7928041 A 19791114

Abstract (en)

[origin: US4367409A] Ionization chamber detector making it possible to eliminate stray signals generally due to deformations of lines of force of the electrical field created between the electrodes of the ionization chamber, the deformations being located at the ends of the electrodes. The detector comprises an ionization chamber sealingly subdivided into at least two compartments by means of a dielectric material partition which is permeable to the ionizing radiation beam, the compartments being successively arranged on the path of the beam. The downstream compartment contains the measuring electrodes and the upstream compartments the guard electrodes, which are respectively coplanar and are raised to the same potentials as the measuring electrodes. The gases introduced into both compartments at the same high pressure have different atomic numbers.

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