Title (en)

GAS-FILLED PHOTON DETECTOR

Title (de)

GASGEFÜLLTER PHOTONENDETEKTOR

Title (fr)

DETECTEUR DE LOCALISATION DE PHOTONS, A REMPLISSAGE GAZEUX

Publication

EP 1131843 A1 20010912 (FR)

Application

EP 99972366 A 19991115

Priority

- FR 9902796 W 19991115
- FR 9814349 A 19981116

Abstract (en)

[origin: FR2786024A1] The invention concerns a gas-filled photon detector comprising, in a gas chamber (2), a cathode (18) pierced with holes (20) and an anode (14) comprising a set of elementary anodes (12) insulated from one another. The cathode outer surface is coated with a photoionisable layer (26) maintained at the same potential as said cathode and supplying electrons under the impact of photons. The anode is brought to a potential sufficiently high relative to the cathode to generate, in the space (A) included therebetween, an electric field (EA) enabling to attract almost all the electrons into said space through the holes, then multiplying said electrons by an avalanche process. The invention is applicable to high-energy physics and in the medical field.

IPC 1-7

H01J 47/02

IPC 8 full level

H01J 47/02 (2006.01)

CPC (source: EP)

H01J 47/02 (2013.01)

Citation (search report)

See references of WO 0030150A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

FR 2786024 A1 20000519; **FR 2786024 B1 20010608**; EP 1131843 A1 20010912; WO 0030150 A1 20000525

DOCDB simple family (application)

FR 9814349 A 19981116; EP 99972366 A 19991115; FR 9902796 W 19991115