

Title (en)
PHOTOELECTRIC MULTIPLIER TUBE OF REDUCED LENGTH

Title (de)
PHOTOVERVIELFACHERRÖHRE REDUZIERTER LÄNGE

Title (fr)
TUBE PHOTOMULTIPLICATEUR DE LONGUEUR REDUITE

Publication
EP 0956581 A1 19991117 (FR)

Application
EP 98900630 A 19980126

Priority
• FR 9700898 A 19970128
• IB 9800097 W 19980126

Abstract (en)
[origin: WO9833202A1] The invention concerns a photoelectric multiplier tube comprising: a photocathode PK with a semitransparent photosensitive film for emitting towards the interior of a tube a flux of electrons; a focusing optic comprising a first concave dynode D1 on the photocathode PK side, and a plurality of Rajkman dynodes D3,...D8 arranged on either side of a plane called dynode plane DP. The invention is characterised in that the focusing optic further comprises a second concave dynode on the re-emitting surface of the first dynode, the dynode plane DP having, with respect to the tube axis, an angle greater than 45 DEG , the concavity of the first Rajkman dynode D3 being directed towards the re-emitting surface of the second dynode D2. The invention is applicable to radiation detector for compact gamma-camera.

IPC 1-7
H01J 43/06

IPC 8 full level
H01J 43/06 (2006.01); **H01J 43/20** (2006.01)

CPC (source: EP US)
H01J 43/06 (2013.01 - EP US)

Citation (search report)
See references of WO 9833202A1

Cited by
WO2007005004A1; EP0898296B1

Designated contracting state (EPC)
DE DK FR GB NL

DOCDB simple family (publication)
WO 9833202 A1 19980730; DE 69820228 D1 20040115; DE 69820228 T2 20041125; DK 0956581 T3 20040405; EP 0956581 A1 19991117; EP 0956581 B1 20031203; JP 2001508917 A 20010703; US 6232715 B1 20010515

DOCDB simple family (application)
IB 9800097 W 19980126; DE 69820228 T 19980126; DK 98900630 T 19980126; EP 98900630 A 19980126; JP 52921298 A 19980126; US 34170199 A 19990727