

Title (en)
Electron accelerator.

Title (de)
Elektronenbeschleuniger.

Title (fr)
Accélérateur d'électrons.

Publication
EP 0157129 A1 19851009 (DE)

Application
EP 85101459 A 19850211

Priority
• US 58185484 A 19840221
• US 58212284 A 19840221

Abstract (en)
An electron accelerator which comprises a target (6 or 206) exposed to the electron beam (e<->) for producing x-ray deceleration radiation and means (106, 108, 110, 112 or 306, 308, 310, 312) for switching the x-ray radiation between a lower first and a higher second photon energy. A first compensating member (14 or 214) which is arranged centrally in the x-ray radiation at a first distance from the target, flattens the radiation intensity distribution when the x-ray radiation is switched to the first photon energy. In the case the x-ray radiation is switched to the second photon energy a second compensating member (80 or 240) which is arranged in the x-ray radiation in a longer second distance from the target in combination with the first compensating member flattens the radiation intensity distribution.

IPC 1-7
H01J 35/00; **G21K 1/10**; **H05K 7/12**

IPC 8 full level
G21K 1/10 (2006.01); **H01J 35/00** (2006.01); **H05H 7/12** (2006.01)

CPC (source: EP)
G21K 1/10 (2013.01); **H01J 35/00** (2013.01); **H05H 7/12** (2013.01)

Citation (search report)
• [A] US 3917954 A 19751104 - BOGE RAYMOND J
• [A] DE 3017745 A1 19801127 - VARIAN ASSOCIATES
• [A] EP 0059382 A1 19820908 - GEN ELECTRIC [US]
• [A] FR 2091819 A5 19720114 - MEDINOVA AB
• [A] FR 2384416 A1 19781013 - SIEMENS AG [DE]
• [A] ELECTROMEDICA SIEMENS, vol. 45, no. 3/4, 1977, pages 101-106, Erlangen, DE; W. HAAS et al.: "Strahlentherapie heute: Das Mevatron 20, ein kompakter Hochleistungsbeschleuniger"

Cited by
GB2211710A

Designated contracting state (EPC)
CH DE FR GB LI

DOCDB simple family (publication)
EP 0157129 A1 19851009

DOCDB simple family (application)
EP 85101459 A 19850211