

Title (en)
RADIATION REDUCTION FILTER FOR USE IN MEDICAL DIAGNOSIS

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Application
EP 89902441 A 19890127

Priority
CA 557752 A 19880129

Abstract (en)
[origin: CA1250062A] In accordance with the present invention, there is provided an X-ray filter comprised of a niobium metal foil having a maximum thickness of about 75 microns or niobium metal foil in combination with additional filtering foils. Preferably the niobium and/or combination foils are encased in a thin plastic sheet. The plastic sheet provides for protection of the foil filter during handling as well as some absorption of the secondary radiation emitted from the foil when it is contacted by the X-ray beam. As a result of the construction immediately above, the filter of the present invention filters energy from the X-ray beam which is usually absorbed by the examination object and does not contribute to the radiographic image of the examination object.

IPC 1-7
G21K 3/00

IPC 8 full level
G21K 3/00 (2006.01); **A61B 6/00** (2006.01); **G21K 1/10** (2006.01)

CPC (source: EP)
G21K 1/10 (2013.01)

Citation (search report)
• [A] DE 1614019 A1 19700527 - KOCH & STERZEL WANDLER UND TRA
• US 4499591 A 19850212 - HARTWELL GARY [US]
• DE 2211090 A1 19720928 - PHILIPS NV
• [AD] PHYSICS IN MEDECINE AND BIOLOGY. vol. 31, no. 6, 1986, LONDON GB pages 585 - 600; K KOEDOODER: "FILTER MATERIALS FOR DOSE REDUCTION IN SCREEN-FILM RADIOGRAPHY"
• [AD] ANNALES DE RADIOLOGIE vol. 19, no. 1, 1976, pages 57 - 66; H HEINRICH W SCHUSTER: "REDUCTION OF DOSE BY FILTRATION IN PAEDIATRIC FLUOROSCOPY AND FLUOROGRAPHY."
• See references of WO 8907322A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
CA 1250062 A 19890214; AU 3056689 A 19890825; CN 1023849 C 19940216; CN 1036285 A 19891011; DD 294119 A5 19910919; DE 8912419 U1 19900201; EP 0356488 A1 19900307; EP 0356488 A4 19910925; ES 2011731 A6 19900201; IN 172608 B 19931023; JP H03503213 A 19910718; WO 8907322 A1 19890810

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