

Title (en)  
HAND HELD CAMERA WITH TOMOGRAPHIC CAPABILITY

Title (de)  
HANDKAMERA MIT TOMOGRAPHIEMÖGLICHKEIT

Title (fr)  
CAMERA PORTATIVE A CAPACITE TOMOGRAPHIQUE

Publication  
**EP 1272108 A4 20110713 (EN)**

Application  
**EP 01928448 A 20010411**

Priority  
• US 0111708 W 20010411  
• US 19665400 P 20000412

Abstract (en)  
[origin: WO0179884A2] A tomographic imaging system includes a moveable detector or detectors capable of detecting gamma radiation; one or more position sensors for determining the position and angulation of the detector(s) in relation to a gamma ray emitting source; and a computational device for integrating the position and angulation of the detector(s) with information as to the energy and distribution of gamma rays detected by the detector and deriving a three dimensional representation of the source based on the integration. A method of imaging a radiation emitting lesion located in a volume of interest also is disclosed.  
[origin: WO0179884A2] A tomographic imaging system includes a moveable detector (1) or detectors capable of detecting gamma radiation (3); one or more position sensor (2) for determining the position and angulation of the detector(s) in relation to a gamma ray emitting source; and a computational device (9) for integrating the position and angulation of the detector(s) with information as to the energy and distribution of gamma rays detected by the detector and deriving a three-dimensional representation of the source based on the integration. A method of imaging a radiation emitting lesion located in a volume of interest also is disclosed.

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**A61B 6/00**

IPC 8 full level  
**G01T 1/161** (2006.01); **G01T 1/164** (2006.01); **G01T 1/167** (2006.01); **G01T 7/00** (2006.01); **G21C 17/00** (2006.01)

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**A61B 6/037** (2013.01); **A61B 6/4258** (2013.01); **G01T 1/161** (2013.01); **G01T 7/00** (2013.01)

Citation (search report)  
• [Y] US 3714429 A 19730130 - MC AFEE J, et al  
• [Y] US 4899054 A 19900206 - BARFOD JESPER M [DK]  
• [A] US 4243884 A 19810106 - AVERA JR C BERT  
• [A] US 5690113 A 19971125 - SLIWA JR JOHN WILLIAM [US], et al  
• [A] JP H11352233 A 19991224 - TOSHIBA CORP  
• [XY] WO 9535509 A1 19951228 - WEINBERG IRVING [US]  
• [A] US 5606165 A 19970225 - CHIOU WALTER C [US], et al  
• See references of WO 0179884A2

Citation (examination)  
• US 5813985 A 19980929 - CARROLL ROBERT G [US]  
• WEINBERG I N ET AL: "Implementing reconstruction with hand-held gamma cameras", NUCLEAR SCIENCE SYMPOSIUM CONFERENCE RECORD, 2000 IEEE LYON, FRANCE 15-20 OCT. 2000, PISCATAWAY, NJ, USA,IEEE, US, vol. 3, 25 October 2000 (2000-10-25), pages 21\_101 - 21\_104, XP010556749, ISBN: 978-0-7803-6503-2, DOI: 10.1109/NSSMIC.2000.949360

Cited by  
US9057684B2

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**US 0111708 W 20010411**; AU 5530501 A 20010411; CA 2405592 A 20010411; EP 01928448 A 20010411; JP 2001576494 A 20010411