

Title (en)  
TOMOGRAPHIC DENSITOMETER

Title (de)  
TOMOGRAPHISCHES DENSITOMETER

Title (fr)  
DENSITOMETRE TOMOGRAPHIQUE

Publication  
**EP 0716742 A4 19970924 (EN)**

Application  
**EP 94926656 A 19940901**

Priority  
• AU PM095993 A 19930902  
• US 9409862 W 19940901

Abstract (en)  
[origin: WO9506874A1] A densitometer (10) for determining the density distribution and variation of density of an object (18) such as in vivo bone using a source of annihilation radiation or a source of photons (16) in the energy range between about 200-keV and 1500 keV and a pair of photon detectors (12, 14) for detecting photons emitted in coincidence. The object (18) is positioned between the photon source and one of the detectors, referred to as the "blocked" detector, and the density is determined by comparing the number of coincident photons detected by the blocked and unblocked detectors along the path of photons.

IPC 1-7  
**G01N 23/02**; **G01N 23/06**; **G01B 15/02**

IPC 8 full level  
**G01N 23/02** (2006.01); **A61B 6/00** (2006.01); **A61B 6/03** (2006.01); **A61B 10/00** (2006.01); **G01B 15/02** (2006.01); **G01N 23/06** (2006.01)

CPC (source: EP)  
**A61B 6/037** (2013.01); **A61B 6/505** (2013.01); **G01B 15/02** (2013.01)

Citation (search report)  
• [YA] US 4983841 A 19910108 - STEWART PETER A E [GB], et al  
• [A] GB 2052207 A 19810121 - PHILIPS NV  
• [XY] H.H. HEUSALA ET AL.: "DESIGN CONSIDERATIONS FOR POSITRON TRANSMISSION TOMOGRAPH USED FOR NON-MEDICAL APPLICATIONS", IEEE TRANSACTIONS ON NUCLEAR SCIENCE, vol. 31, no. 1, February 1984 (1984-02-01), NEW YORK US, pages 543 - 547, XP002035471  
• [YA] J.A. ANDERSON ET AL.: "STIMULATED POSITRON EMISSION ANALYSIS TECHNIQUES FOR THE QUANTITATIVE ASSESSMENT OF FLUORINE IN BONE", IEEE TRANSACTIONS ON NUCLEAR SCIENCE, vol. 38, no. 2, April 1991 (1991-04-01), NEW YORK US, pages 713 - 718, XP002035472  
• [A] M. BENJAMIN ET AL.: "STIMULATED POSITRON EMISSION FOR 3-D TOMOGRAPHIC IMAGING AND BONE STUDIES- PART I: METHOD FEASIBILITY AND SYSTEM CONSIDERATIONS", IEEE TRANSACTIONS ON MEDICAL IMAGING, vol. 8, no. 2, June 1989 (1989-06-01), NEW YORK US, pages 113 - 124, XP002035473  
• [A] R. LECOMTE ET AL.: "A PET CAMERA SIMULATOR WITH MULTISPECTRAL DATA ACQUISITION CAPABILITIES", IEEE TRANSACTIONS ON NUCLEAR SCIENCE, vol. 40, no. 4, August 1993 (1993-08-01), NEW YORK US, pages 1067 - 1074, XP002035474  
• See references of WO 9506874A1

Designated contracting state (EPC)  
DE DK ES FR GB IT SE

DOCDB simple family (publication)  
**WO 9506874 A1 19950309**; CA 2170900 A1 19950309; EP 0716742 A1 19960619; EP 0716742 A4 19970924; JP H09507129 A 19970722

DOCDB simple family (application)  
**US 9409862 W 19940901**; CA 2170900 A 19940901; EP 94926656 A 19940901; JP 50825895 A 19940901