

Title (en)

METHOD OF OBTAINING A DATA STRUCTURE REPRESENTATIVE OF QUANTITIES OF IONIZING RADIATIONS RECEIVED,
CORRESPONDING DEVICE AND COMPUTER PROGRAM

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER REPRÄSENTATIVEN DATENSTRUKTUR FÜR EMPFANGENE MENGEN AN IONISIERENDEN
STRAHLUNGEN, ENTSPRECHENDE VORRICHTUNG UND COMPUTERPROGRAMM

Title (fr)

PROCÉDÉ D'OBTENTION D'UNE STRUCTURE DE DONNÉES REPRÉSENTATIVE DE QUANTITÉS DE RADIATIONS IONISANTES REÇUES,
DISPOSITIF ET PROGRAMME D'ORDINATEUR CORRESPONDANT

Publication

EP 3213299 A1 20170906 (FR)

Application

EP 15785106 A 20151026

Priority

- FR 1460360 A 20141028
- EP 2015074767 W 20151026

Abstract (en)

[origin: WO2016066590A1] The invention relates to a method of obtaining a data structure representative of quantities of ionizing radiations received during a radiotherapy treatment (iSQR). According to the invention, such a method comprises: - a step of obtaining (100) at least one three dimensional image (i3D) representative of an anatomical region treated; - a step of integrating (110), within said three dimensional image (i3D), a plurality of data representative of radiotherapy treatment doses received, as a function of a set of dosimetric data previously obtained (EDD), delivering an integrated three dimensional image (i3Di); - a step of thresholding (120) of said three dimensional integrated image as a function of a set of thresholds, delivering a threshold three dimensional image (i3Ds) comprising at least one anatomical volume per threshold of said threshold set; - a step of generating (130) said data structure representative of quantities of ionizing radiations (iSQR) on the basis of said at least one anatomical volume of said threshold image (i3Ds).

IPC 8 full level

G06T 19/20 (2011.01)

CPC (source: EP US)

A61B 6/022 (2013.01 - EP US); **A61B 6/463** (2013.01 - EP); **A61B 6/5217** (2013.01 - EP); **G06T 19/20** (2013.01 - EP);
G16H 50/30 (2017.12 - EP); **A61B 6/501** (2013.01 - EP); **A61B 6/51** (2024.01 - EP); **A61N 5/1071** (2013.01 - EP); **G06T 2210/41** (2013.01 - EP);
G06T 2219/2012 (2013.01 - EP)

Citation (search report)

See references of WO 2016066590A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3027715 A1 20160429; **FR 3027715 B1 20161209**; EP 3213299 A1 20170906; WO 2016066590 A1 20160506

DOCDB simple family (application)

FR 1460360 A 20141028; EP 15785106 A 20151026; EP 2015074767 W 20151026