

**Information on Search Strategy - Pilot phase (see OJ 2015, A86)**

The type of information contained in this sheet may change during the pilot for improving the usefulness of this new service.

Application Number

PCT/EP2017/054680

TITLE: PRE-OPTIMIZATION METHOD FOR QUICK PREDICTION OF ACHIEVABILITY OF CLINICAL GOALS IN INTENSITY MODULATED RADIATION THERAPY

APPLICANT: KONINKLIJKE PHILIPS N.V.

IPC CLASSIFICATION: A61N5/10

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CONSULTED DATABASES: EPODOC, WPI

CLASSIFICATION SYMBOLS DEFINING EXTENT OF THE SEARCH:

IPC:

CPC: A61N5/1031, A61N5/1045, A61N2005/1074

FI/F-TERMS:

KEYWORDS OR OTHER ELEMENTS FEATURING THE INVENTION:

A radiation therapy planning device comprising: a computer including a display device; and at least one non-transitory storage medium storing instructions readable and executable by the computer to perform operations including: computing an achievability estimate for an intensity modulated radiation therapy (IMRT) geometry including a target volume to be irradiated, an organ at risk (OAR), and at least one radiation beam based on relative spatial arrangement of the target region, the OAR, and the at least one radiation beam; and displaying, on the display device, the achievability estimate or information generated based on the achievability estimate.