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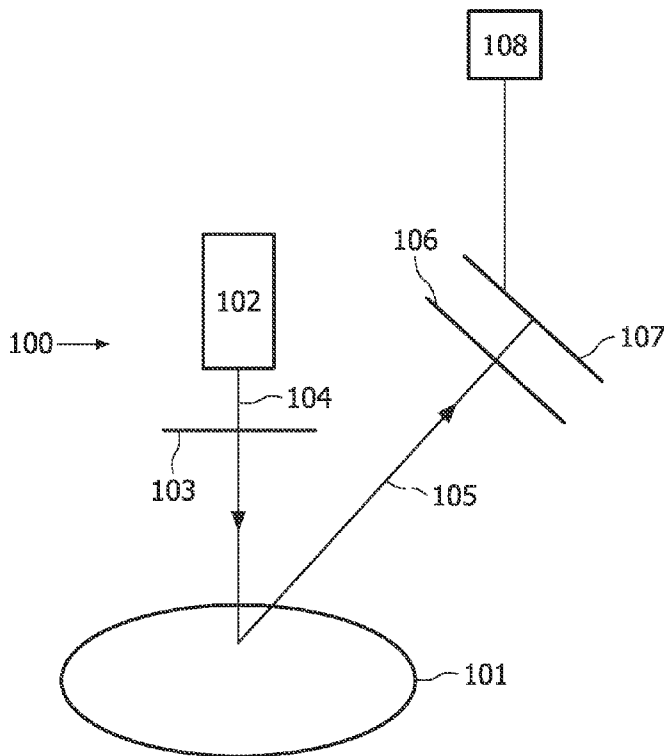
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(54) **Title:** ABSORPTION AND SCATTERING MAP RECONSTRUCTION FOR OPTICAL FLUORESCENCE TOMOGRAPHY



(57) **Abstract:** Optical fluorescence tomography is a highly sensitive method to image contrast agents in the body. However, current reconstruction methods suffer from a high complexity or even instability. According to an exemplary embodiment of the present invention, a method for absorption/scattering map reconstruction for optical fluorescence tomography may be provided, which uses a spectral model. This may provide for a subsequent fluorescence reconstruction with improved image quality.

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**A. CLASSIFICATION OF SUBJECT MATTER**

INV. A61B5/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX, EMBASE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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 Further documents are listed in the continuation of Box C See patent family annex

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