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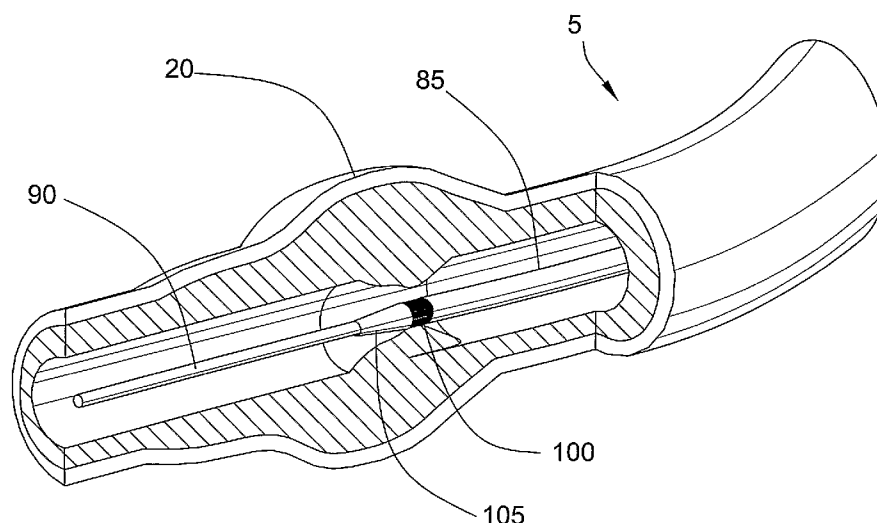
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(54) Title: CO-REGISTRATION OF GRAPHICAL IMAGE DATA REPRESENTING THREE-DIMENSIONAL VASCULAR FEATURES



(57) Abstract: A method and system are disclosed for creating, in a coordinated manner, graphical images of a body including vascular features from a combination of image data sources. The method includes initially creating an angiographic image of a vessel segment. The angiographic image is, for example, either a two or three dimensional image representation. Next, a vessel image data set is acquired that is distinct from the angiographic image data. The vessel image data set comprises information acquired at a series of positions along the vessel segment. An example of such vessel image data is a set of intravascular ultrasound frames corresponding to circumferential cross-section slices taken at various positions along the vessel segment. The angiographic image and the vessel image data set are correlated by comparing a characteristic rendered independently from both the angiographic image and the vessel image data at positions along the vessel segment.

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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61B 6/00 (2006.01)

USPC - 600/474

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 practicable, search terms used)

USPTO EAST System (US, USPG-PUB, USPAT, EPO, JPO, DERWENT, FPRS), MicroPatent, IP.com, DialogPro, Delphion, Google Scholar

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,763,261 B2 (CASSCELLS III et al) 13 July 2004 (13.07.2004) columns 3, 28, 30-31	1-5, 7-12, 17-22
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Y		13-16
Y	US 6,908,480 B2 (JAYARAMAN) 21 June 2005 (21.06.2005) columns 1, 17; figures 1-2.	13-16

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