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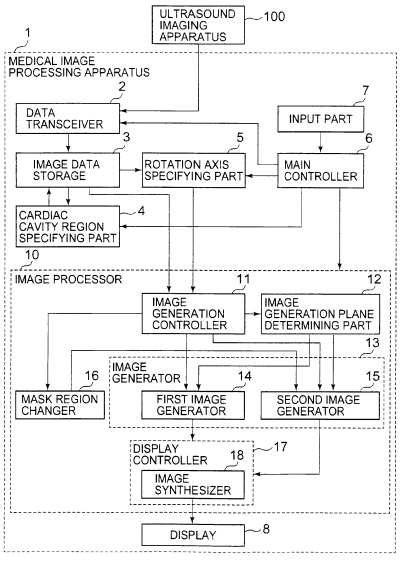
## (54) Medical image processing apparatus, ultrasound imaging apparatus, X-ray CT (Computed Tomography) apparatus, and method of processing medical image

(57) A cardiac cavity region specifying part specifies the position of a cardiac cavity region represented in volume data. An image generation plane determining part determines an image generation plane that includes a rotation axis intersecting the cardiac cavity region. With a direction orthogonal to the image generation plane as a view direction, a first image generator generates three-dimensional image data that three-dimensionally represents a region excluding the cardiac cavity region, based on data excluding data included in the cardiac cavity of the volume data. A second image generator generates two-dimensional image data that two-dimensionally represents a region in the image generation plane, based on the data excluding the data included in the cardiac cavity region of the volume data. An image synthesizer synthesizes the three-dimensional image data with the two-dimensional image data. A display controller causes a display to display the synthesized image.

FIG. 1

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Application Number
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The present search report has been drawn up for all claims

| Place of search | Date of completion of the search | Examiner |
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CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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| 公开(公告)号 | EP2157546A3 | 公开(公告)日 | 2014-03-26 |
| 申请号 | EP2009008869 | 申请日 | 2009-07-07 |
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| IPC分类号 | G06T7/00 G06T15/00 A61B5/00 A61B8/00 A61B8/08 | | |
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摘要(译)

心腔区域指定部分指定体数据中表示的心腔区域的位置。图像生成平面确定部件确定包括与心腔区域相交的旋转轴的图像生成平面。利用与图像生成平面正交的方向作为视图方向，第一图像生成器基于排除包括在体积的心腔中的数据的数据生成三维图像数据，该三维图像数据三维地表示除心腔区域之外的区域。数据。第二图像生成器基于除了包括在体数据的心腔区域中的数据的数据，生成二维图像数据，该二维图像数据二维地表示图像生成平面中的区域。图像合成器将三维图像数据与二维图像数据合成。显示控制器使显示器显示合成图像。