

Exhibit 2

U.S. Patent No. 9,349,183



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Douglas et al.

(10) **Patent No.:** **US 9,349,183 B1**
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(54) **METHOD AND APPARATUS FOR THREE DIMENSIONAL VIEWING OF IMAGES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1335 days.

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(21) Appl. No.: **12/176,569**

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Related U.S. Application Data

(63) Continuation-in-part of application No. 11/941,578, filed on Nov. 16, 2007.

(60) Provisional application No. 60/877,931, filed on Dec. 28, 2006.

(51) **Int. Cl.**

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G09G 5/16	(2006.01)
G06K 9/78	(2006.01)
G06K 9/80	(2006.01)
G06T 7/00	(2006.01)

(52) **U.S. Cl.**

CPC **G06T 7/0075** (2013.01)

(58) **Field of Classification Search**

None
See application file for complete search history.

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(57) **ABSTRACT**

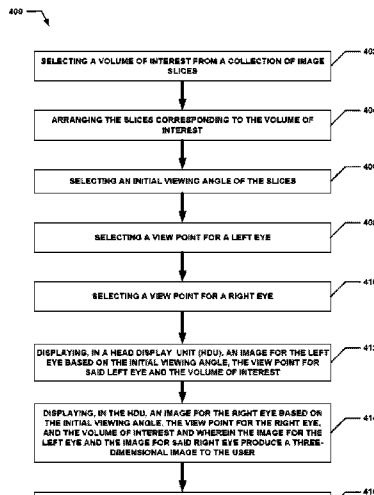
A method, apparatus and computer program product for three-dimensional viewing of images is presented. Embodiments of the invention provide a process for combining slices generated by medical imaging devices to create a volume of interest and then present this volume in a three-dimensional representation to a head display unit so that the user can obtain a holistic view of the patient. Key image processing techniques are applied which enable the user to rotate and view the volume of interest from alternative viewpoints; to enable tissue subtraction to facilitate unobstructed viewing of a region of interest; to identify differing tissues with color schematics; to zoom in for optimal viewing; and to view a moving image of a volume of interest.

18 Claims, 14 Drawing Sheets

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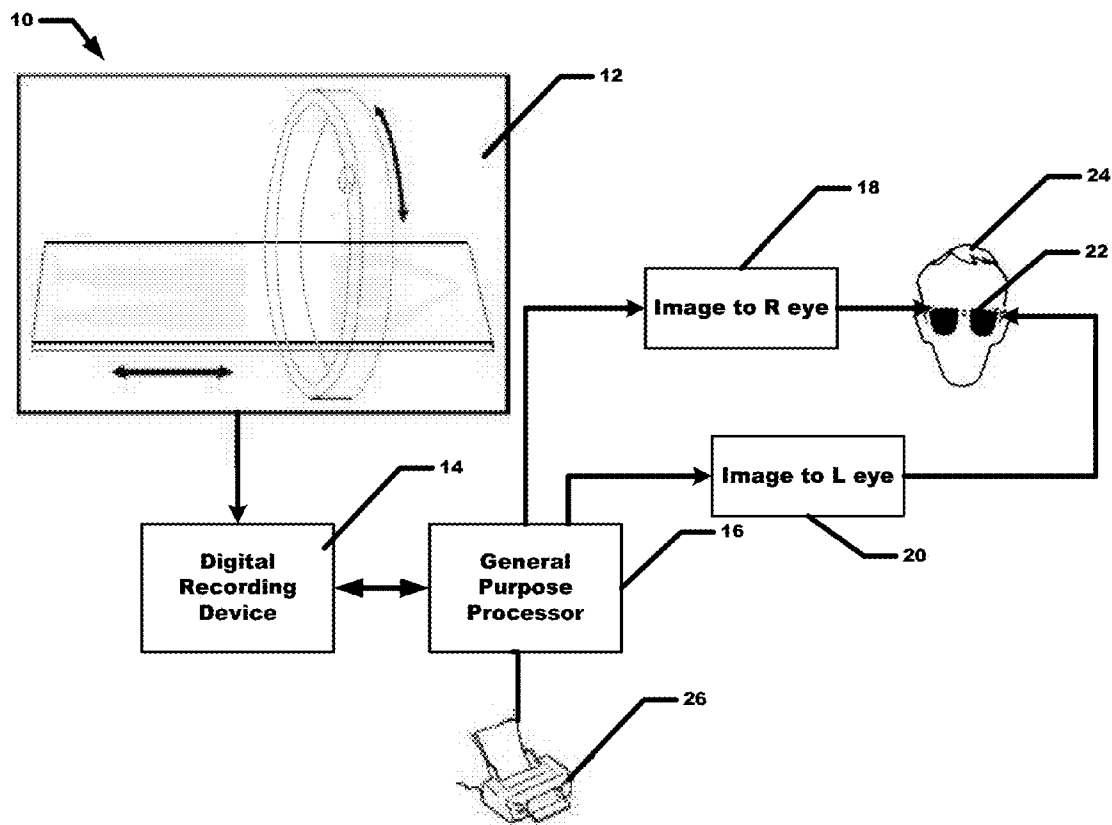


FIGURE 1

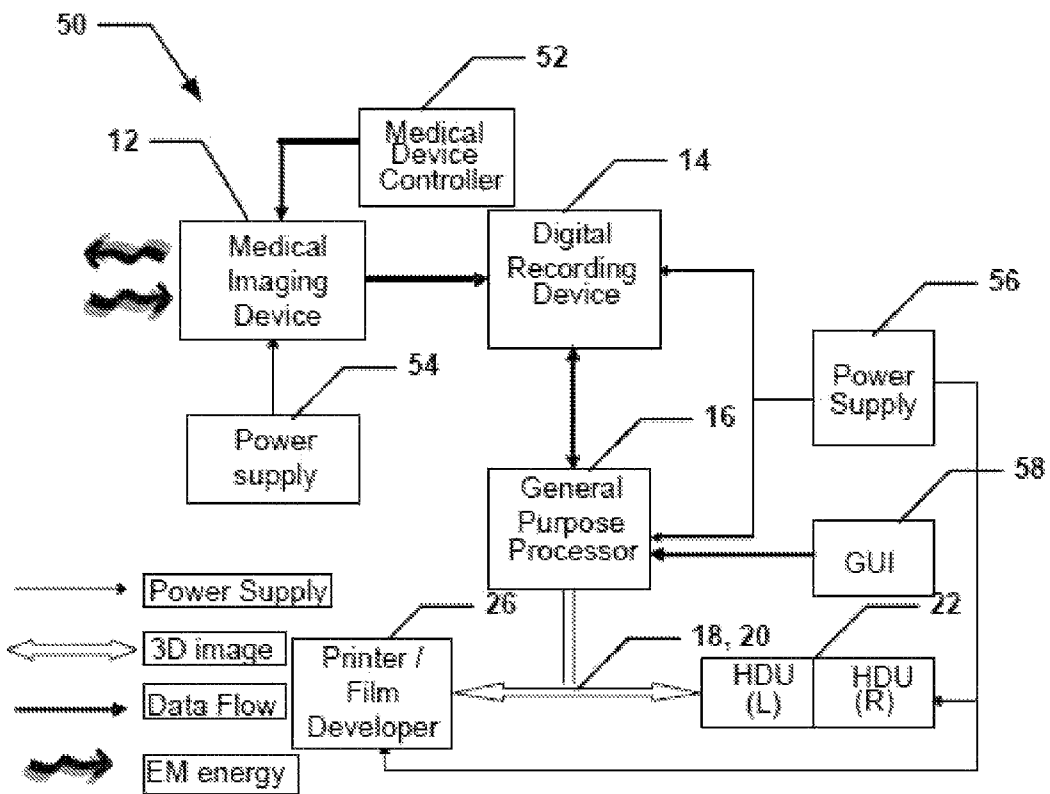


FIGURE 2

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