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(54) **LOCALIZATION OF CAPSULE WITH A SYNTHETIC SOURCE OF QUADRUPOLES AND DIPOLES**

**Publication Classification**

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(52) **U.S. Cl.** ..... 600/424

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(57) **ABSTRACT**

(22) **PCT Filed:** Jul. 6, 2009

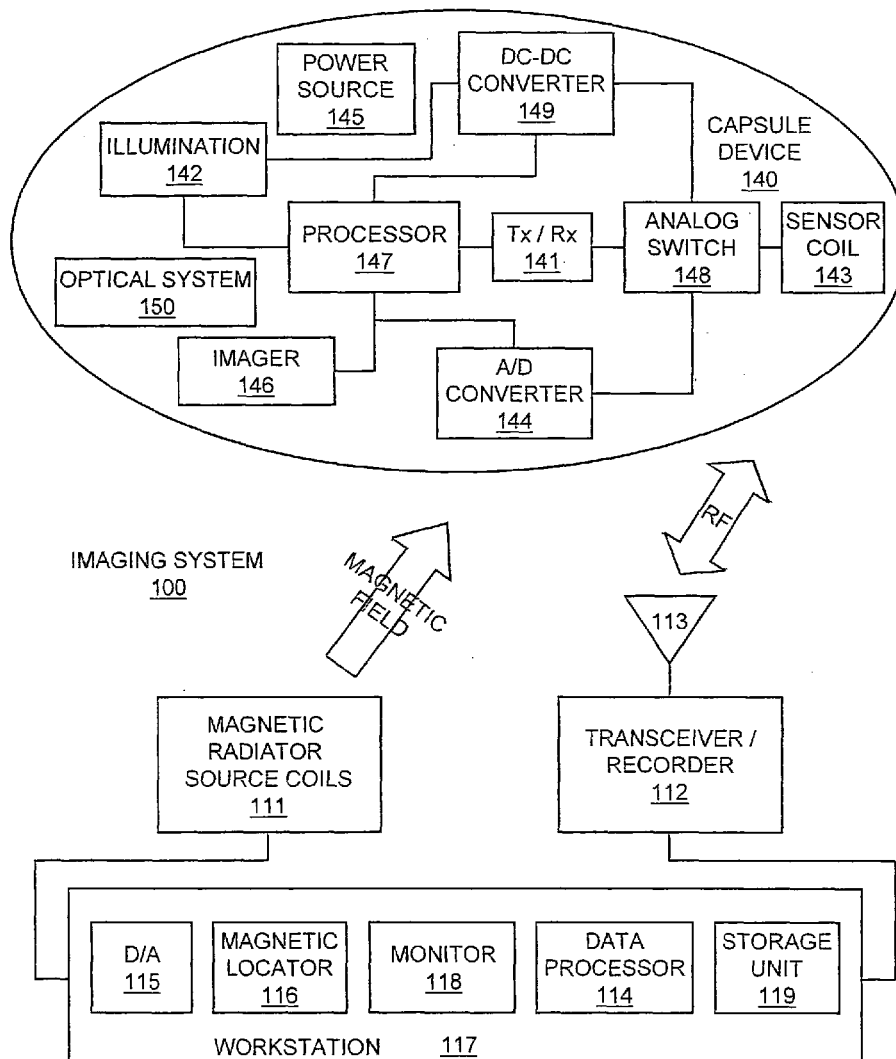
(86) **PCT No.:** PCT/IL09/00676

§ 371 (c)(1),  
(2), (4) **Date:** Feb. 3, 2011

This invention relates to methods and apparatus for localizing an in vivo imaging device by means of a single magnetic source coil assembly and a single magnetic detector coil assembly. This invention also relates to methods and apparatus to enable the use of a single magnetic source coil assembly to also transmit and receive information, images, and controls signals, as well as for the coil assembly to be used in DC-DC voltage conversion. A user interface with a display provides the user with the option of viewing selected images captured by the in vivo imaging device.

**Related U.S. Application Data**

(60) Provisional application No. 61/079,530, filed on Jul. 10, 2008.



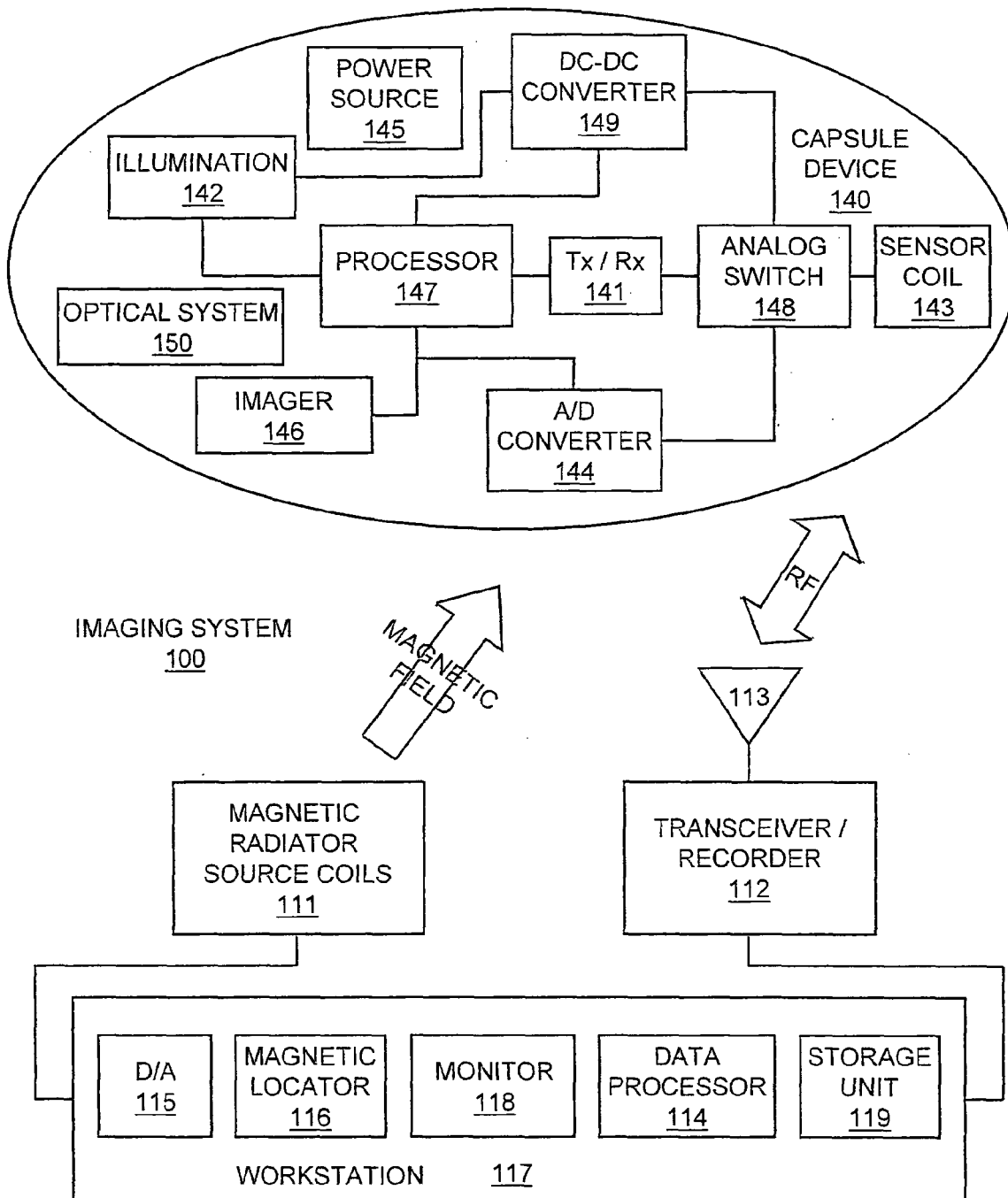


Figure 1

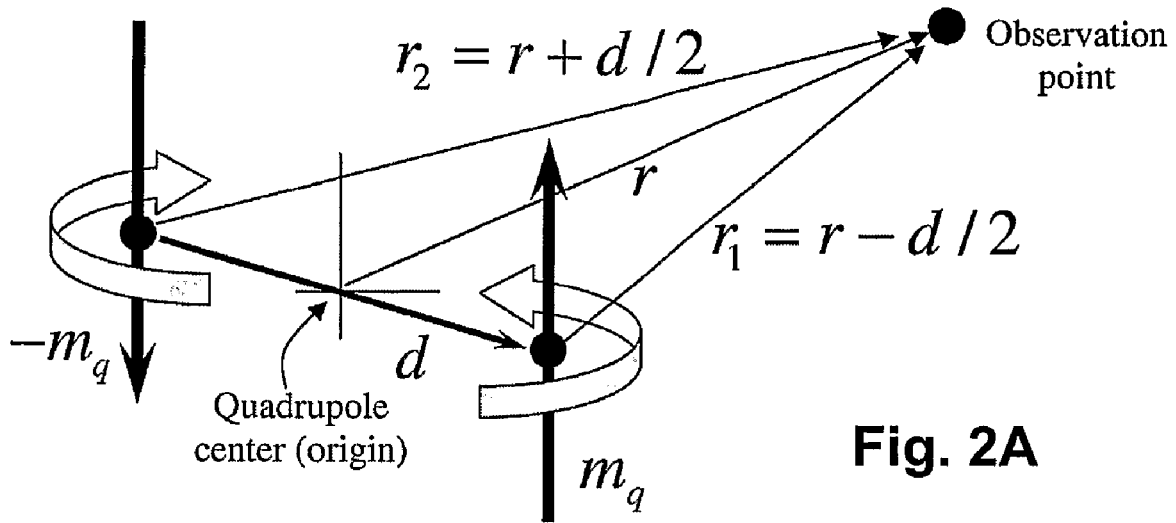


Fig. 2A

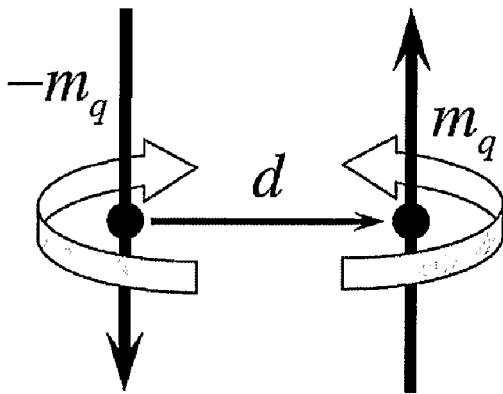


Fig. 2B

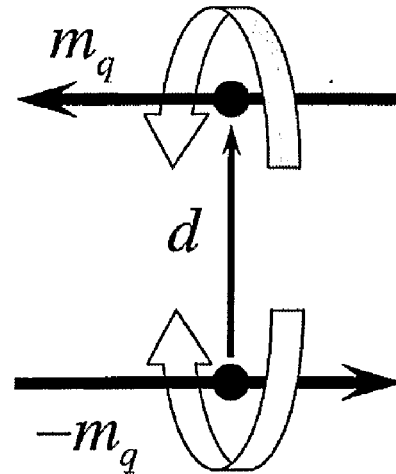


Fig. 2C

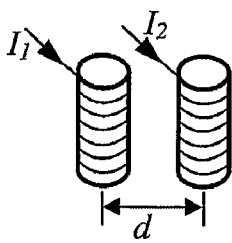


Fig. 3A

Fig. 3B

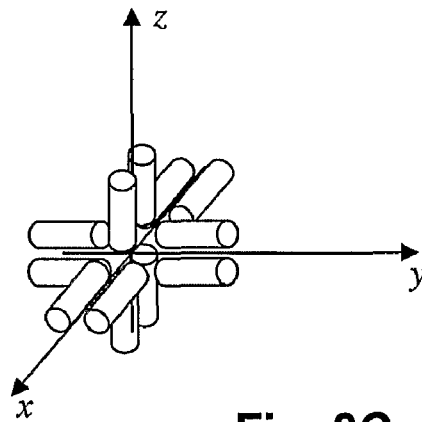
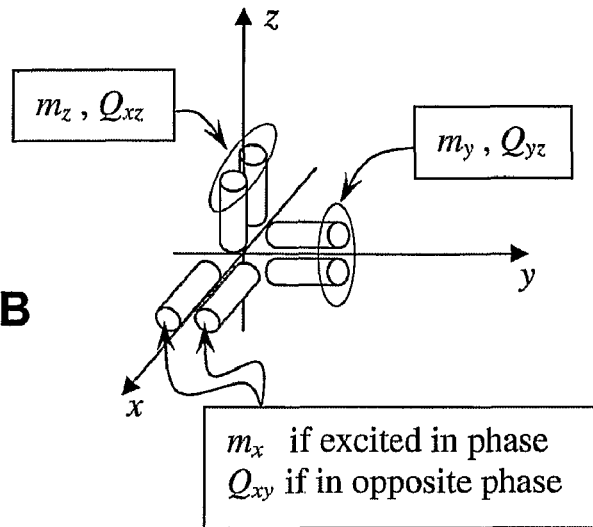


Fig. 3C

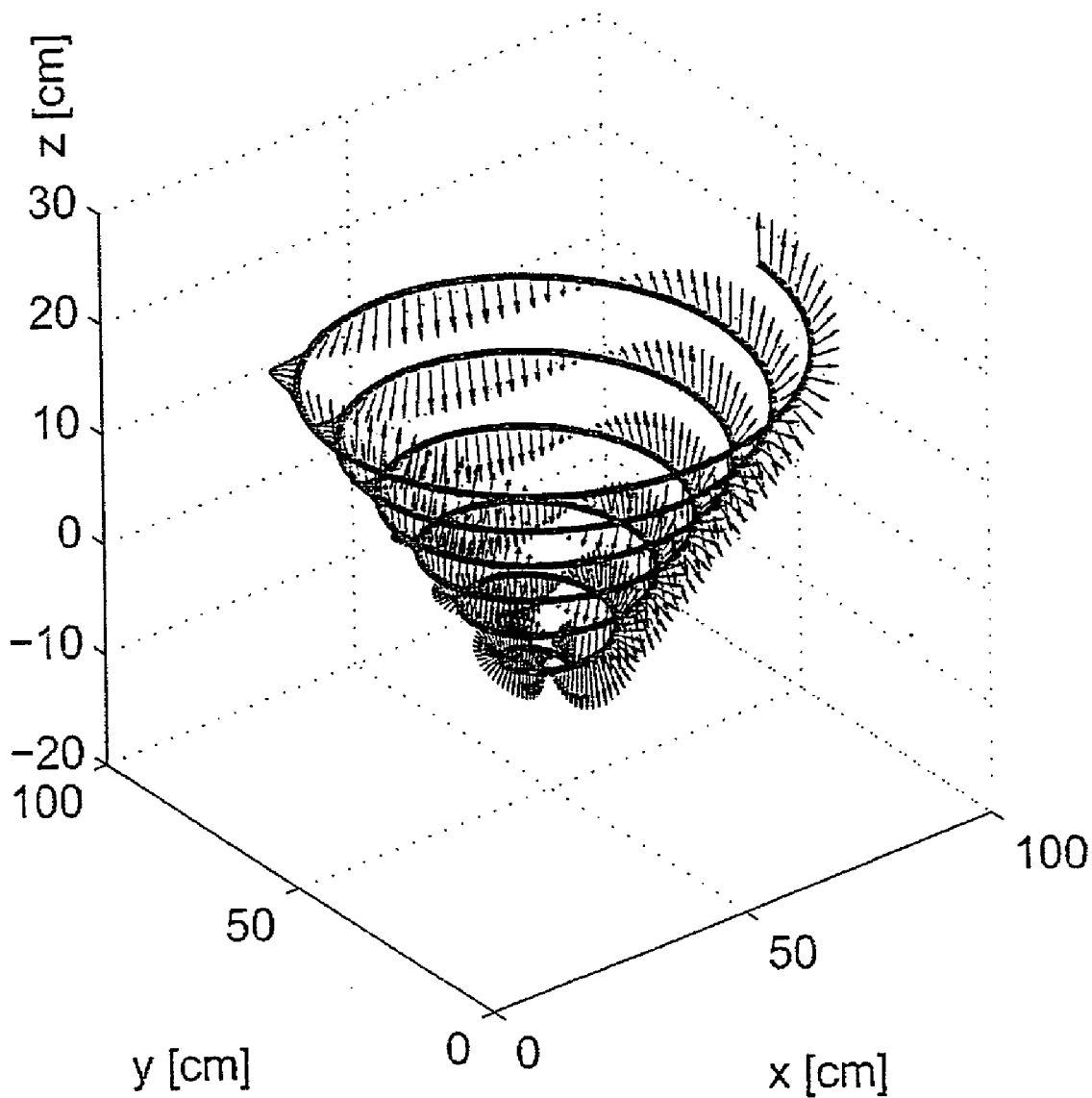


Fig.4

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