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(54) **Title:** PSEUDO-BIRDCAGE COIL WITH VARIABLE TUNING AND APPLICATIONS THEREOF

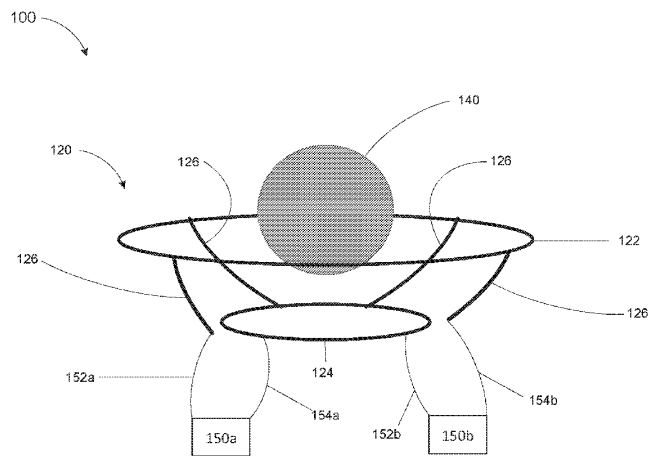


Figure 1

(57) **Abstract:** A coil for single-sided magnetic resonance imaging system is disclosed. The coil is configured to generate a magnetic field outwards away from the coil. The coil includes a first ring and a second ring having different diameters and the current flows through the coil to generate the magnetic field in a region of interest. A method of imaging via a magnetic imaging apparatus is also disclosed. The method includes providing a power source and providing a coil that includes a first ring and a second ring having different diameters. The method includes turning on the power source so as to flow a current through the coil to generate a magnetic field in a region of interest. The method also includes selectively turning on a particular set of electronic components so as to pulse the magnetic field in a narrower frequency range.

[Continued on next page]

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