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(19) **United States**(12) **Patent Application Publication**
Mo(10) **Pub. No.: US 2006/0187607 A1**(43) **Pub. Date: Aug. 24, 2006**(54) **APPARATUS AND METHOD FOR CREATING
PULSE MAGNETIC STIMULATION HAVING
MODULATION FUNCTION**(52) **U.S. Cl. 361/143**(76) **Inventor: Seung-Kee Mo, Seoul (KR)**

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H01H 47/00 (2006.01)(57) **ABSTRACT**

An apparatus for creating pulse magnetic stimulation, having a modulation function, according to the present invention, comprises: a driving voltage supplying section for converting AC voltage input from a voltage source into DC voltage having a predetermined magnitude; a capacitor section for accumulating electric charge in accordance with the DC voltage; an input switch section for controlling the accumulation of electric charge in the capacitor section; a coil for generating magnetic flux in accordance with current generated by both-end voltage corresponding to the electric charge accumulated in the capacitor section; an output switch section for controlling discharge of the electric charge accumulated in the capacitor section through the coil; and a shunt switch section for lowering magnetic energy stored in the coil and voltage stored in the capacitor section into a ground level to obtain a pulse magnetic field. In this pulse-magnetic-stimulation creating apparatus having a modulation function according to the present invention, it is possible to efficiently transfer energy on the basis of current compliance of a patient and impedance of biologic tissue for therapeutic applications.

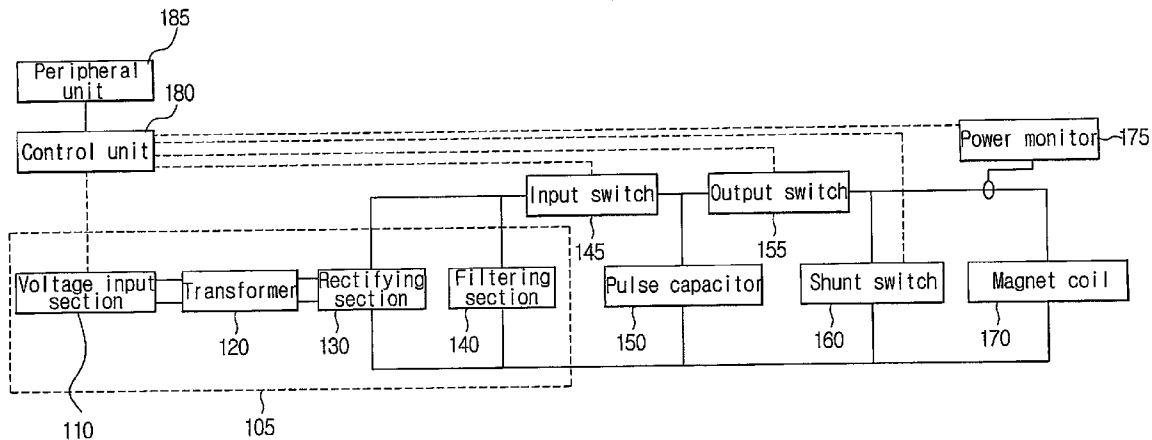


FIG. 1

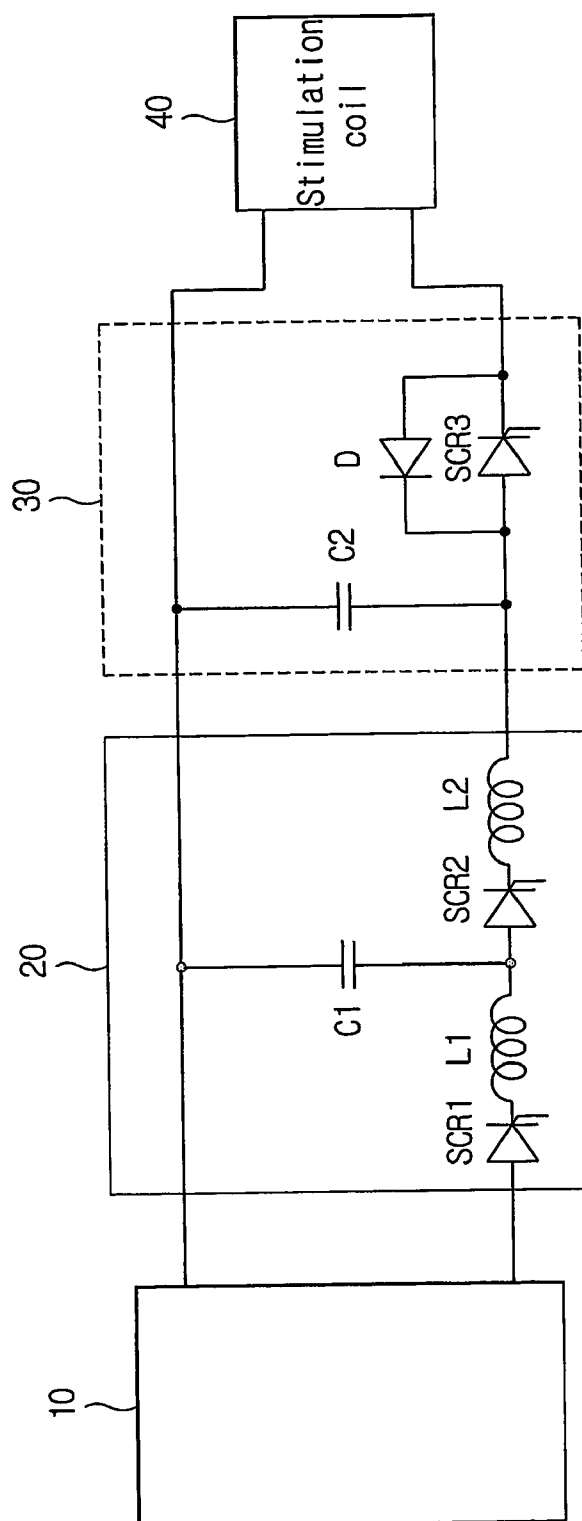


FIG. 2A

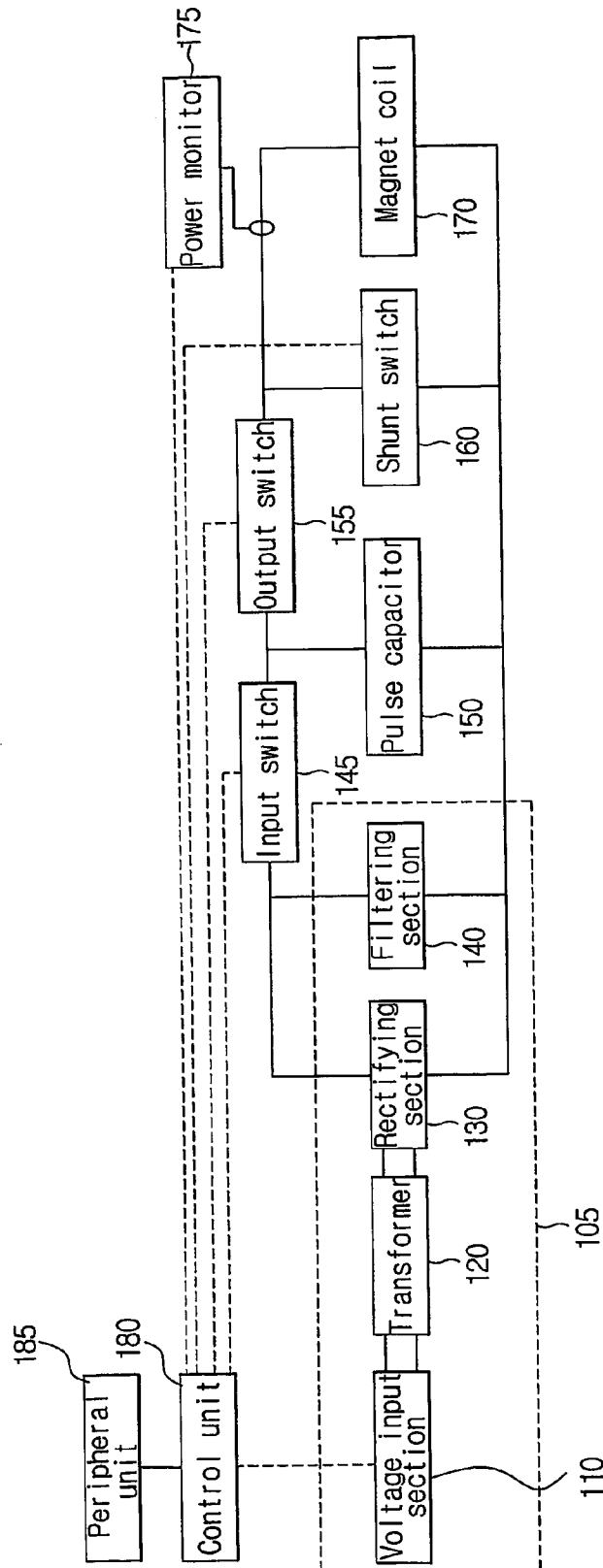


FIG. 2B

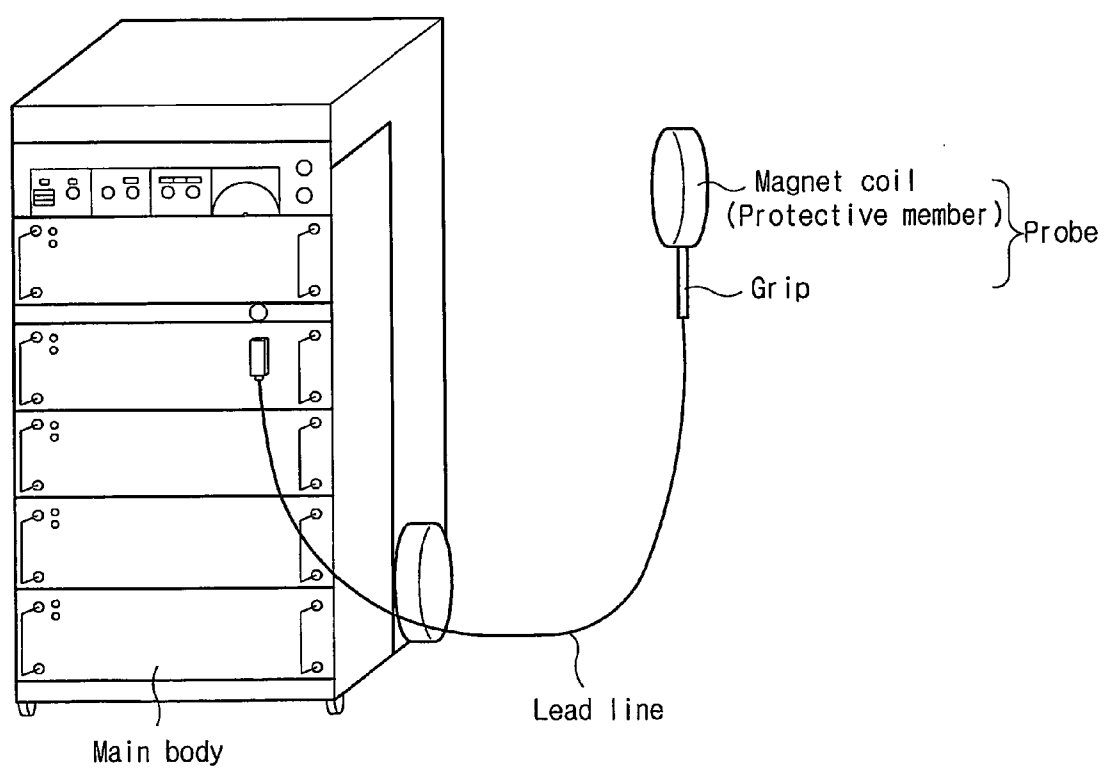
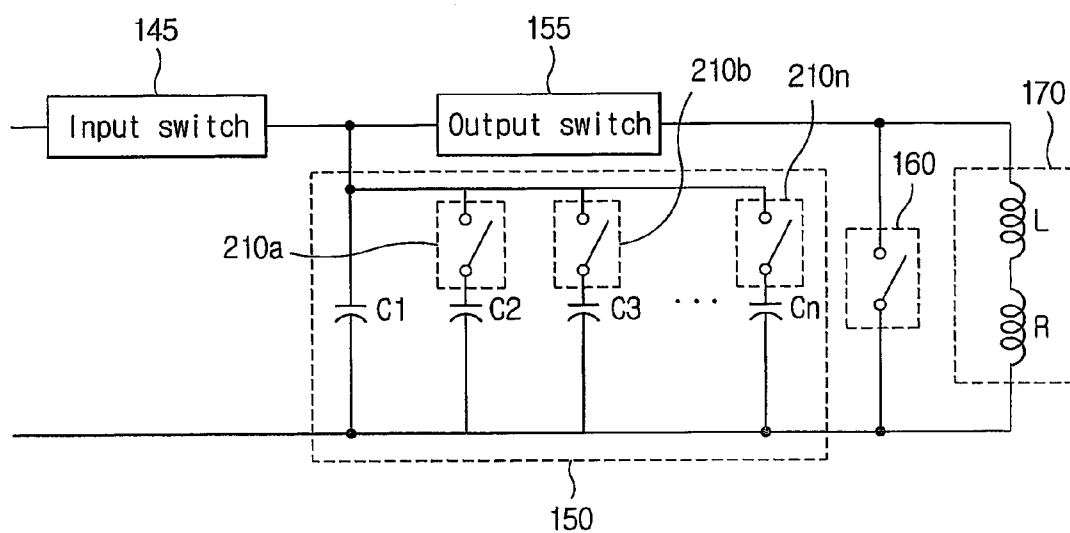


FIG. 3



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