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(54) **ADAPTIVE INDUCTIVE POWER SUPPLY**

(76) Inventor: **David W. Baarman**, Fennville, MI (US)

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Correspondence Address:  
**Warner Norcross & Judd LLP**  
900 Fifth Third Center  
111 Lyon Street, N.W.  
Grand Rapids, MI 49503-2487 (US)

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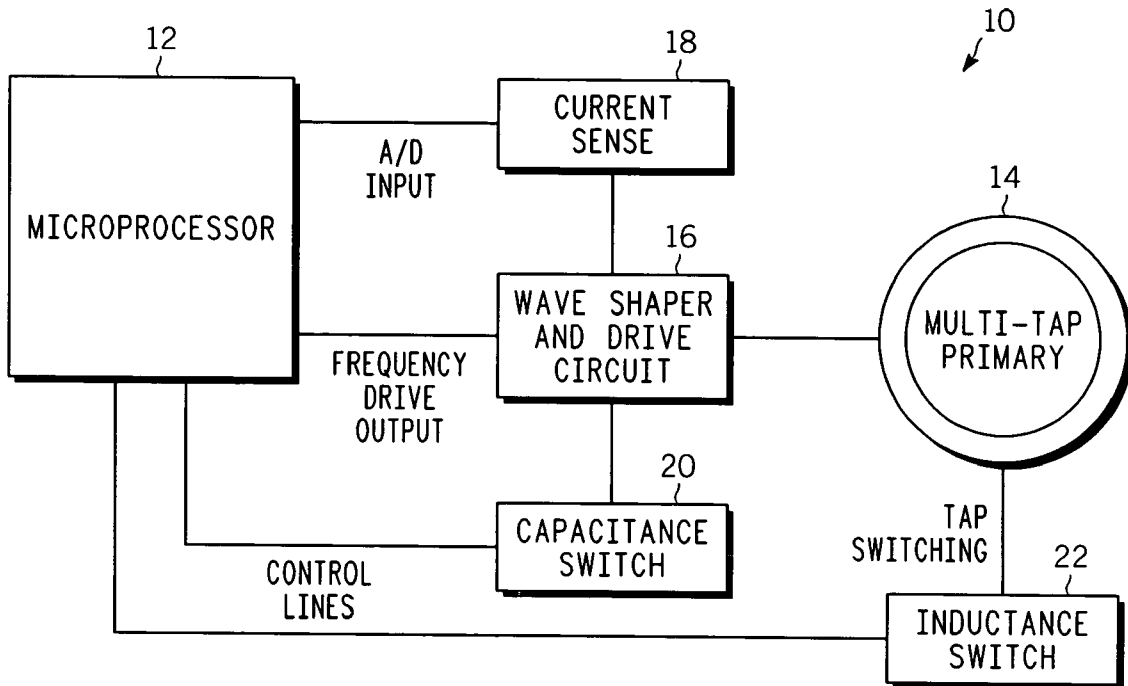
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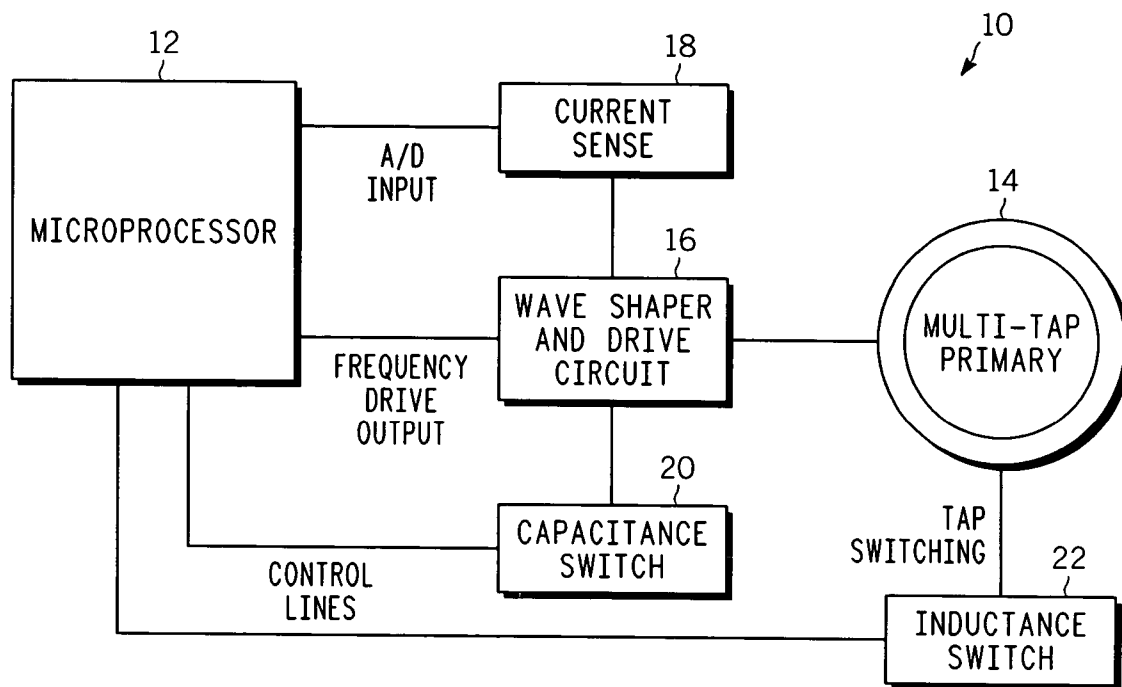
(57) **ABSTRACT**

**Related U.S. Application Data**

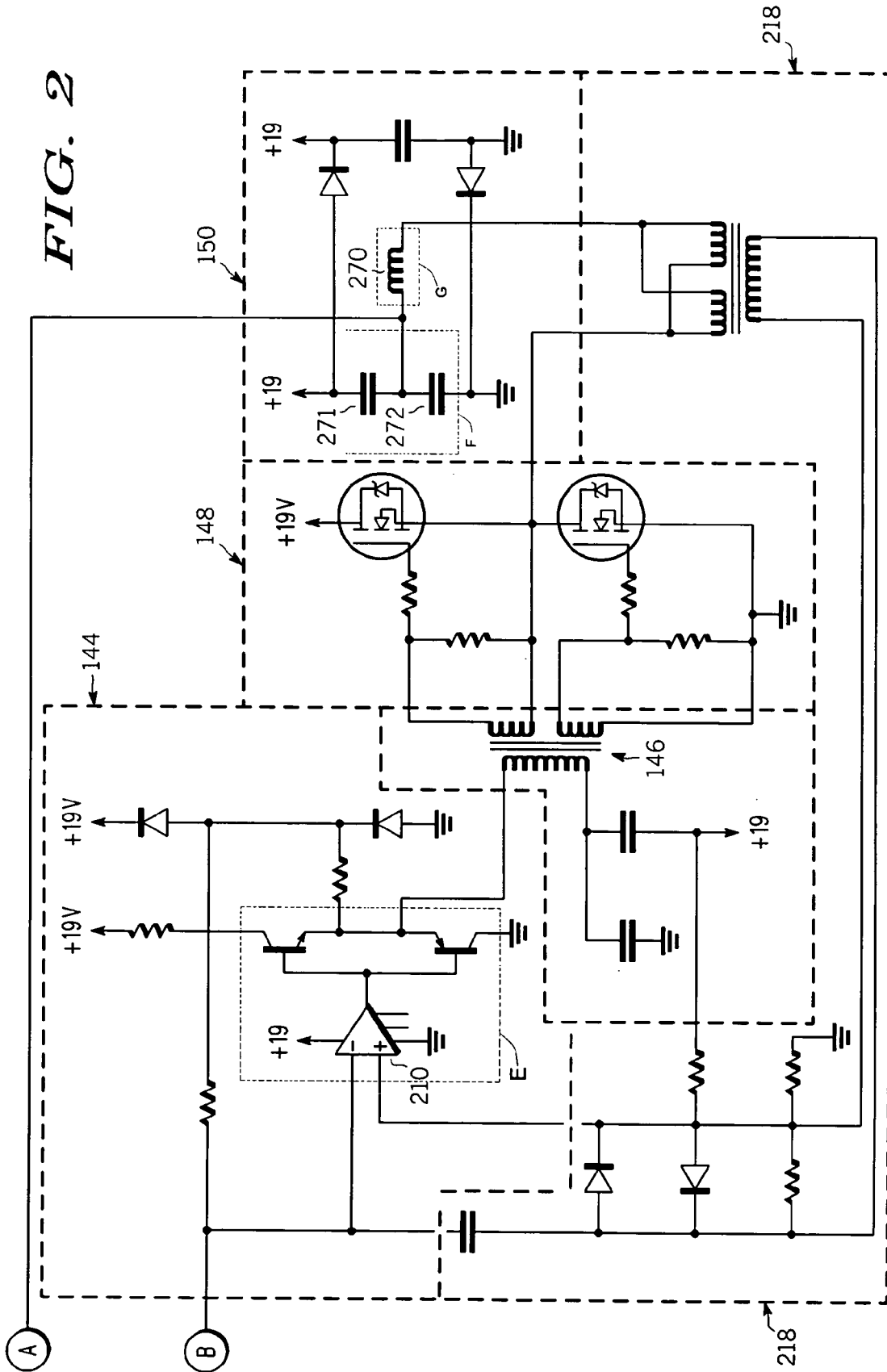
(63) Continuation-in-part of application No. 10/175,095, filed on Jun. 18, 2002, now Pat. No. 6,673,250, which is a continuation-in-part of application No. 09/592,194, filed on Jun. 12, 2000, now Pat. No. 6,436,299.

A contactless power supply has a dynamically configurable tank circuit powered by an inverter. The contactless power supply is inductively coupled to one or more loads. The inverter is connected to a DC power source. When loads are added or removed from the system, the contactless power supply is capable of modifying the resonant frequency of the tank circuit, the inverter frequency, the inverter duty cycle or the rail voltage of the DC power source.





**FIG. 1**



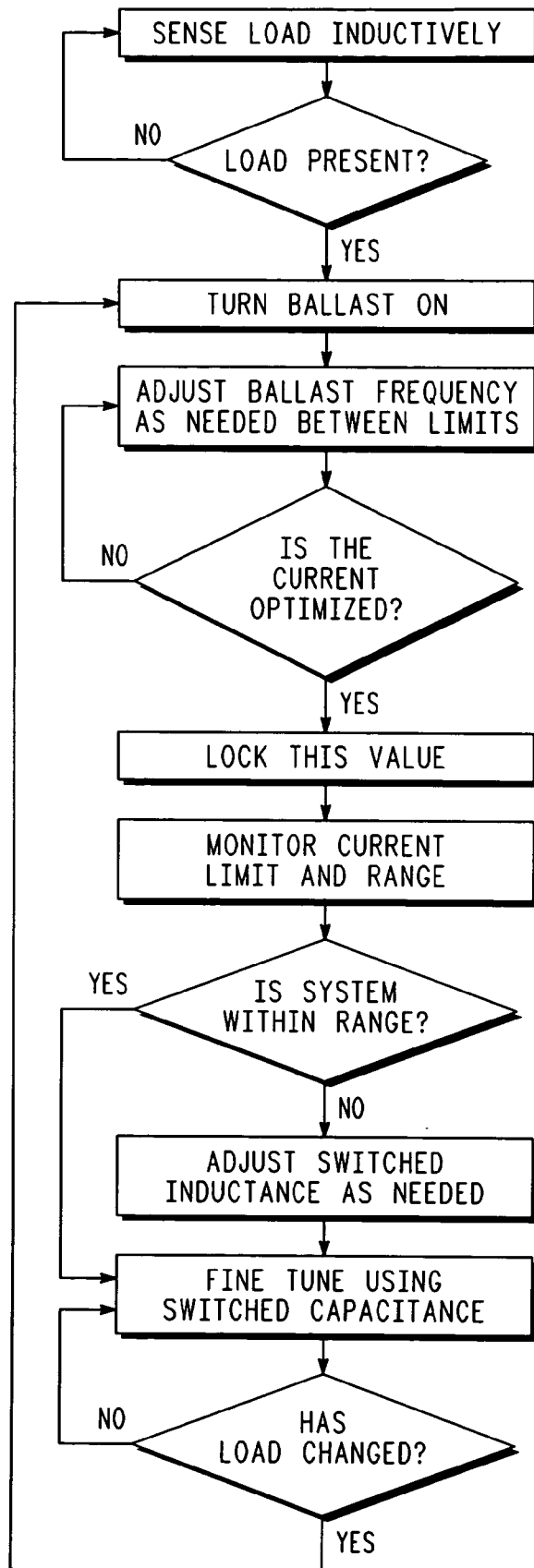
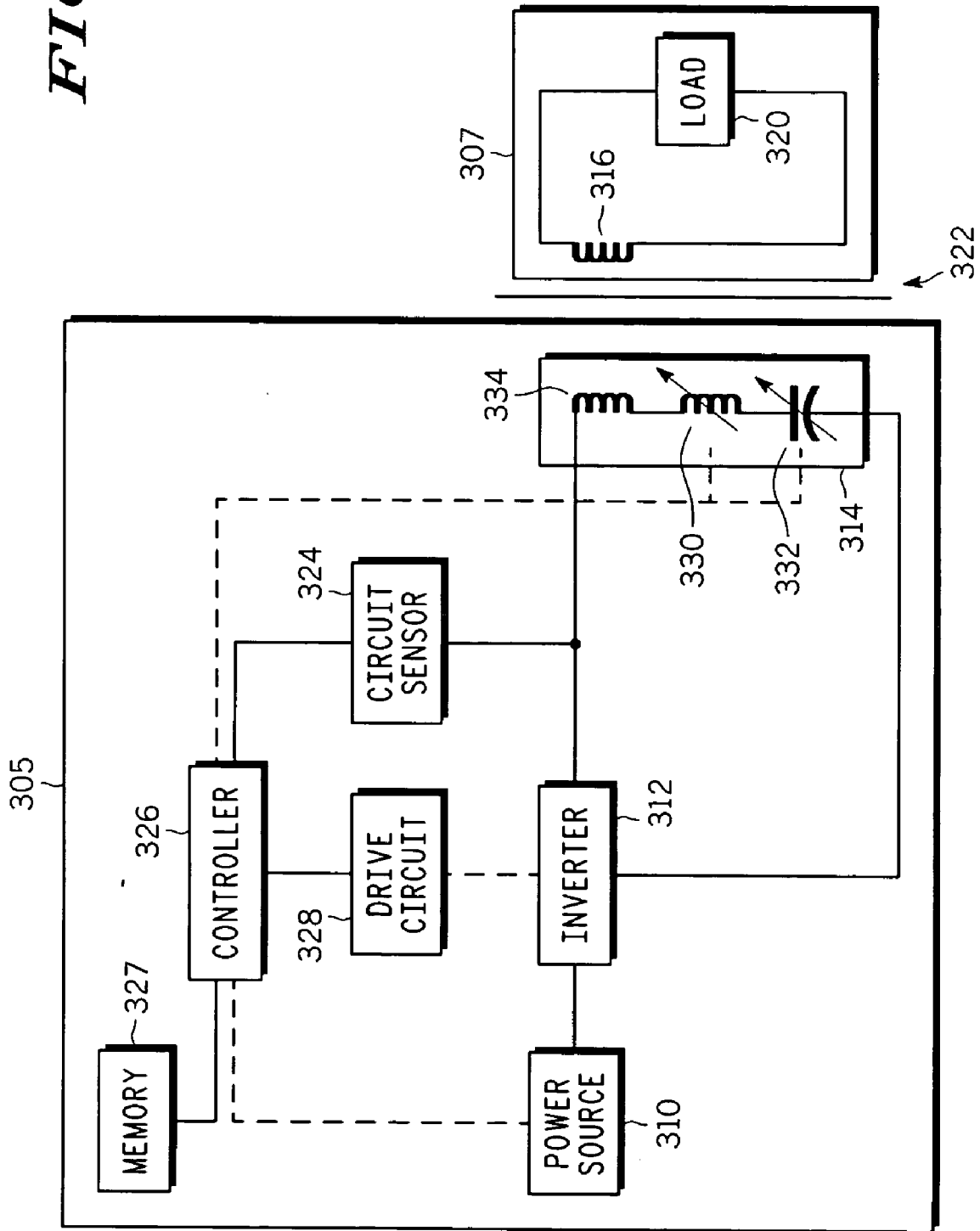


FIG. 3

FIG. 4



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