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- CONTACTLESS ELECTRICAL ENERGY TRANSMISSION SYSTEM HAVING A PRIMARY SIDE CURRENT FEEDBACK CONTROL AND SOFT-SWITCHED SECONDARY SIDE RECTIFIER
- (76) Inventors: Yungtaek Jang, Cary, NC (US); Milan M. Jovanovic, Cary, NC (US)

Correspondence Address: VENABLE, BAETJER, HOWARD AND CIVILETTI, LLP P.O. BOX 34385 WASHINGTON, DC 20043-9998 (US)

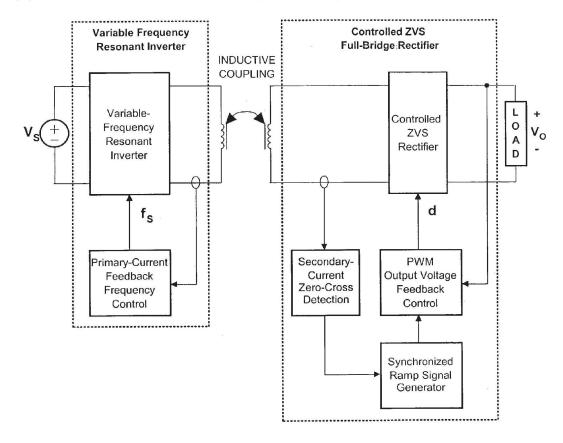
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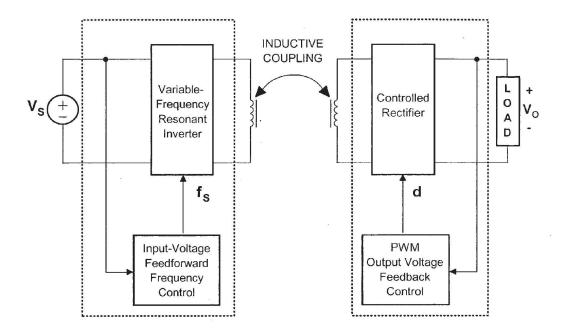
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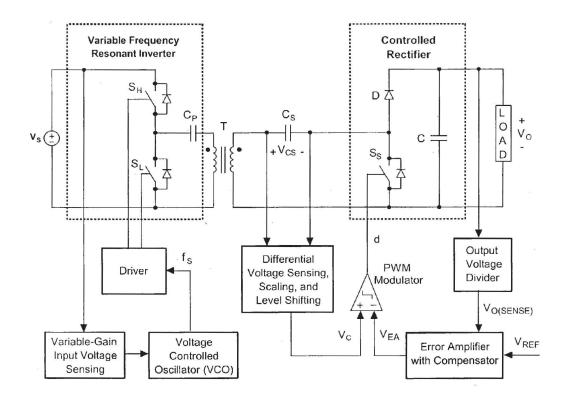
#### ABSTRACT (57)

A contactless electrical energy transmission system includes a transformer having a primary winding that is coupled to a power source through a primary resonant circuit and a secondary winding that is coupled to a load through a secondary resonant circuit. The primary and secondary resonant circuits are inductively coupled to each other. A primary control circuit detects current changes through the primary resonant circuit to control the switching frequency of a controllable switching device for maintaining a substantially constant energy transfer between the primary winding and secondary winding in response to at least one of a power source voltage change and a load change. As a result, excessive circulating energy of the CEET system is minimized providing a tight regulation of the output voltage over the entire load and input voltage ranges without any feedback connection between the primary side and the secondary side.





(PRIOR ART)
Fig. 1



(PRIOR ART)
Fig. 2

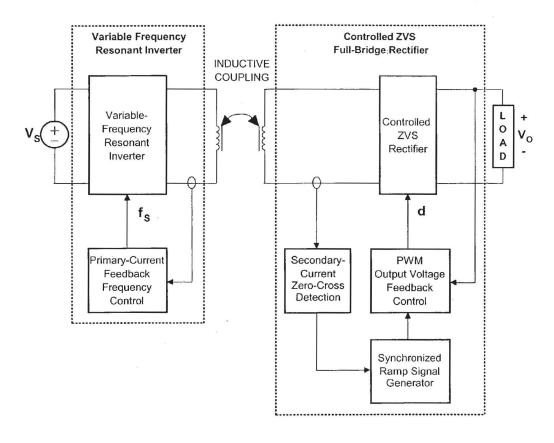


Fig. 3

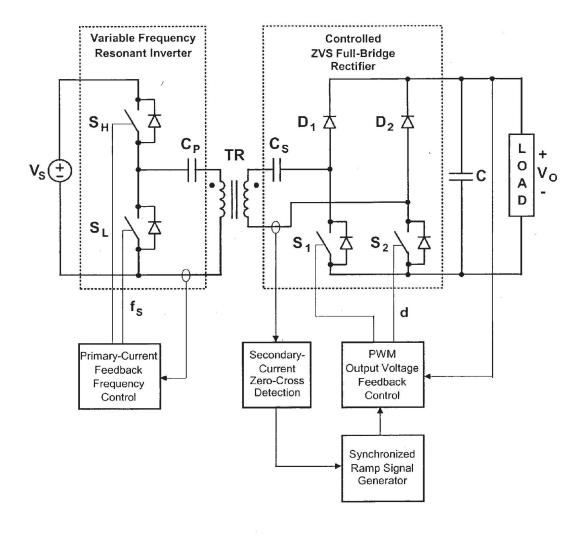


Fig. 4

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