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onant circuit to said predetermined voltage of said power supply when conductive; and a fourth transistor coupling said opposite end of said resonant circuit to said reference potential when conductive; driver means for selectively rendering said first, said second, said third and said fourth transistors alternately conductive and non-conductive over each cycle of operation such that said first and said fourth transistor are rendered conductive only during one half cycle of operation and said second and said third transistor are rendered conductive only during the other half cycle of operation, said driver means further having a frequency of operation substantially equal to said resonant frequency and providing a switching signal to said transistors for maintaining a minimum saturation resistance throughout the respective conductive half cycle of operation; and output means coupled to said resonant circuit for providing an output signal which is responsive to current flow in said resonant circuit during each half cycle of operation.

5. A power amplifier comprising, in combination; a resonant network having a low impedance to a fundamental frequency and a high impedance to harmonic frequencies thereof; means for connecting a load to said network; terminal means including first polarity and second polarity terminals for connection to a source of volt-

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age; first transistor means connecting said resonant network to said first polarity terminal and operative in a switching mode for charging said network in one direction; second transistor means connecting said resonant network to said first polarity terminal and operative in a switching mode for charging said network in the opposite direction; and means for rendering said first and said second transistor means alternately conductive for each half cycle of the fundamental frequency current wave form to alternately charge said network in opposite directions.

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