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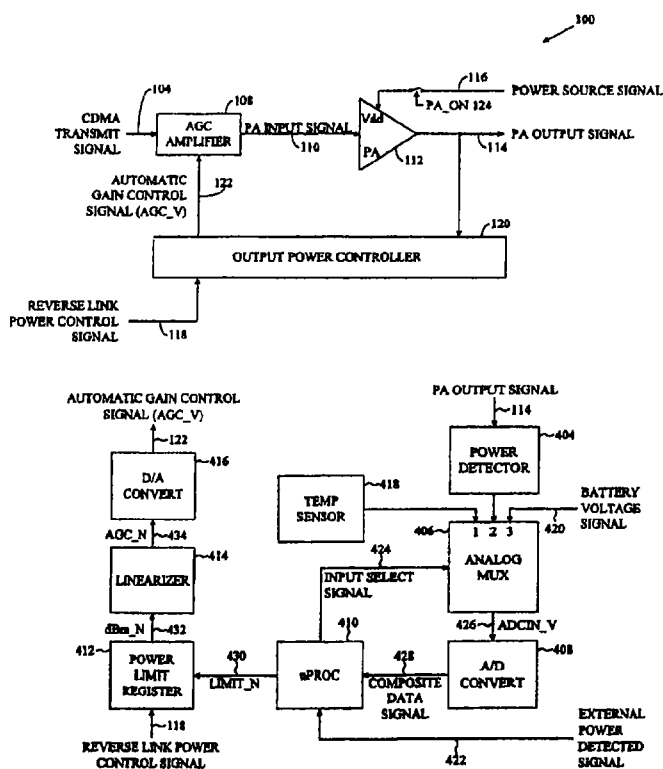
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(54) Title: ADJUSTING MAXIMUM TRANSMIT POWER TO MAINTAIN CONSTANT MARGIN FOR ADJACENT CHANNEL POWER REJECTION



(57) Abstract: A wireless telephone has an output power controller (120) which provides a limit to the maximum transmit power, sufficient to provide adjacent channel power rejection (ACPR). During battery operation, the limit is not fixed. It instead depends on actual transmitted power (114) and (preferably) on temperature (418) and battery voltage (420) as well. Analog signals from detectors for each of these parameters are multiplexed (406), digitized (408), and applied to a microprocessor (410). The microprocessor applies some suitable limiting algorithm, if only an empirically derived look-up table. The resulting signal (430) limits the power control signal (118) received from the base station. If the controller (120) detects (422) that power is being supplied from an external source instead of from a battery, the limiting signal (430) is fixed by the microprocessor (410).

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