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(54) **Title**: A PHASED ARRAY ANTENNA AND A METHOD OF OPERATING A PHASED ARRAY ANTENNA

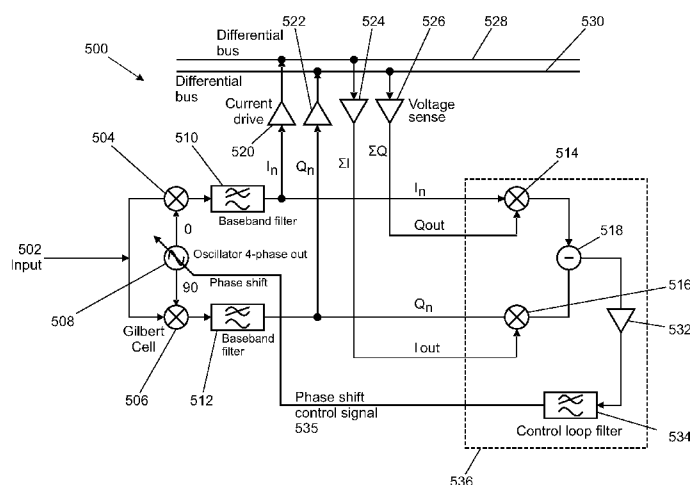


Fig. 5

(57) **Abstract**: An element of a phased array antenna is provided. The element comprises a phase tracking circuit configured to multiply the in-phase component (I_n) of a local output signal by the quadrature phase component (Q_{out}) of an external output signal to generate a phase control signal (535) and/or to multiply the quadrature component (Q_n) of a local output signal by the in-phase component (I_{out}) of an external output signal to generate a phase control signal (535).