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(71) Applicant *(for all designated States except US)*: **QUALCOMM INCORPORATED** [US/US]; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **RIMINI, Roberto** [IT/US]; 5775 Morehouse Drive, San Diego, California 92121 (US).

(74) Agent: **PATEL, Milan, I.**; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, Califonia 92121 (US).

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(54) **Title**: MULTIPLEXING ARRANGEMENTS FOR MULTIPLE RECEIVE ANTENNAS

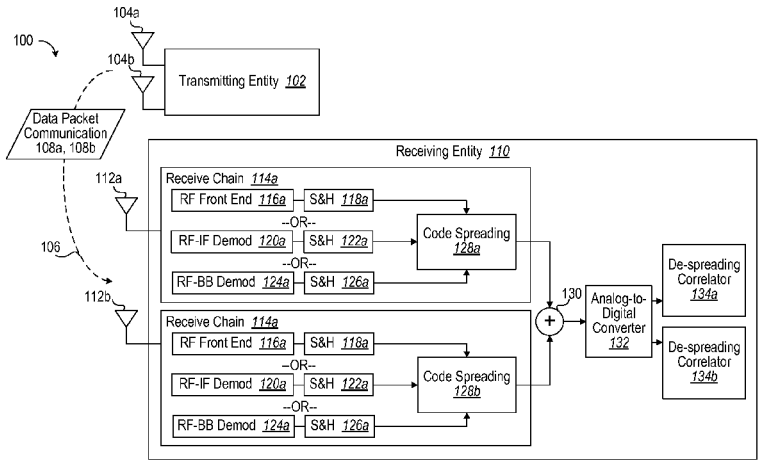


FIG. 1

(57) **Abstract**: A method and apparatus processes a plurality of analog signals in a transceiver with multiple receive (Rx) antennas in a wireless communication system. By appropriate combining of the analog signals of each Rx antenna, this scheme allows a reduction in the number of the front end components, for example, filters, mixers and Analog to Digital Converter (ADC) devices. Subsequently, the signals are separated digitally by virtue of their unique code. The benefits associated with this scheme are at least threefold: reduced cost, area, and power consumption of a multiple antenna terminal. Additionally, proper parameter settings increase signal to Quantization Noise Ratio (SQNR) at the ADC output.

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