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(71) Applicant (for all designated States except US): **COHDA WIRELESS PTY LTD** [AU/AU]; c/o Itek Pty Ltd, Building P- Mawson Lakes Campus, Mawson Lakes, S.A. 5095 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALEXANDER, Paul, Dean** [AU/AU]; 5 Harrington Street, Prospect, S.A. 5082 (AU). **GRANT, Alexander, James** [AU/AU]; 33 Wellington Square, North Adelaide, S.A. 5006 (AU). **RASMUSSEN, Lars, Kildehoj** [DK/AU]; 62/52 Brougham Place, North Adelaide, S.A. 5006 (AU). **JAKAS, Stephen, Peter** [AU/AU]; 26 Norseman Avenue, Hillcrest, S.A. 5086 (AU).

(74) Agent: **SMOORENBURG PATENT & TRADE MARK ATTORNEYS**; P.O. Box 9, Kangaroo Ground, VIC 3097 (AU).

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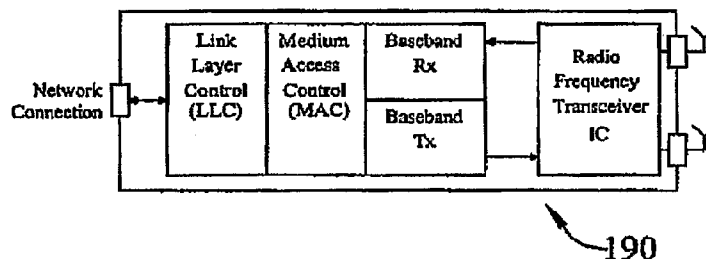
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(54) Title: METHOD AND SYSTEM FOR COMMUNICATION IN A MULTIPLE ACCESS NETWORK



(57) Abstract: The present invention provides an iterative decoding circuit for a wireless multiuser communications receiver comprising a first signal processing means for receiving at least one received signal, said first signal processing means comprising at least two linear iterative filters such that the first linear iterative filter provides an estimate of a selected received signal to an estimated signal output and a second linear iterative filter provides estimates of at least one other received signal, delayed by one iteration cycle, to an input of said first linear iterative filter, a second signal processing means for receiving the estimated signal output of the first linear iterative filter and providing a further received signal estimate to the input of the first signal processing means in a succeeding iteration cycle of the decoding circuit. The application also includes a method of communication with packet sample hypothesis and a method of communicating using estimating time varying channel impairments.

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