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(71) Applicant: QUALCOMM INCORPORATED [US/US]; 5775 Morhouse Drive, San Diego, CA 92121-1714 (US).

(72) Inventor: BLANZ, Josef, J., 2315 East Harvard Avenue #7, Denver, CO 80301 (US)

(74) Agents: WADSWORTH, Philip, R. et al.; Qualcomm Incorporated, 5775 Morehouse Drive, San Diego, CA 92121-1714 (US)

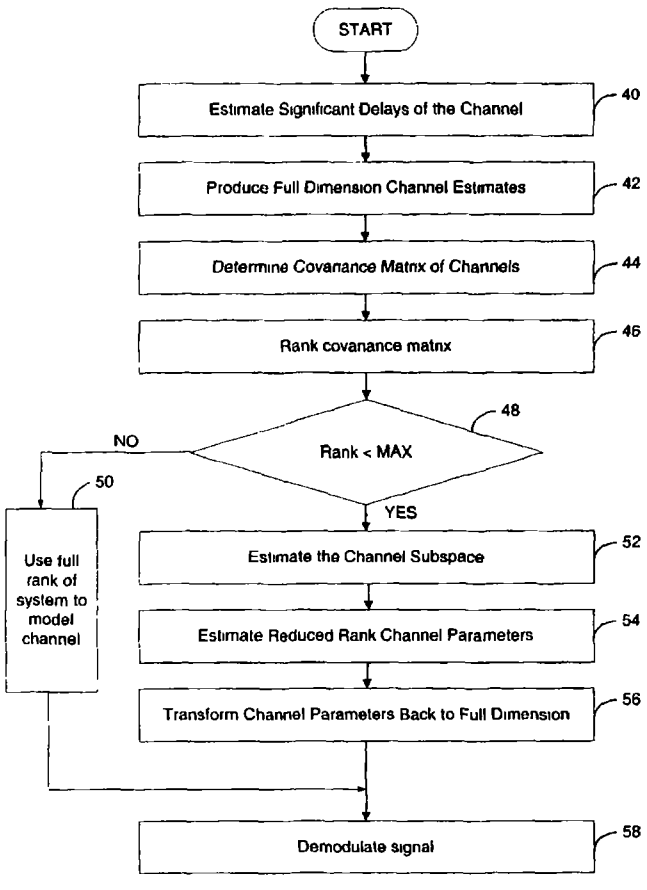
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(54) Title: METHOD AND APPARATUS FOR PRODUCING A CHANNEL ESTIMATE WITH REDUCED RANK



(57) Abstract: A method and apparatus for estimating a communication channel (14) in a wireless communication system (10) having multiple transmitter antennas (12) using reduced rank estimation The method exploits redundant and/or *a priori* knowledge within a system to simplify the estimation calculations Ine one embodiment, a covariance matrix is calculated (44) and analyzed (46) to determine il the channel parameters maybe reduced for channel estimation If not, all parameters are used (50), otherwise a reduced rank matrix (54) is used for the calculation

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