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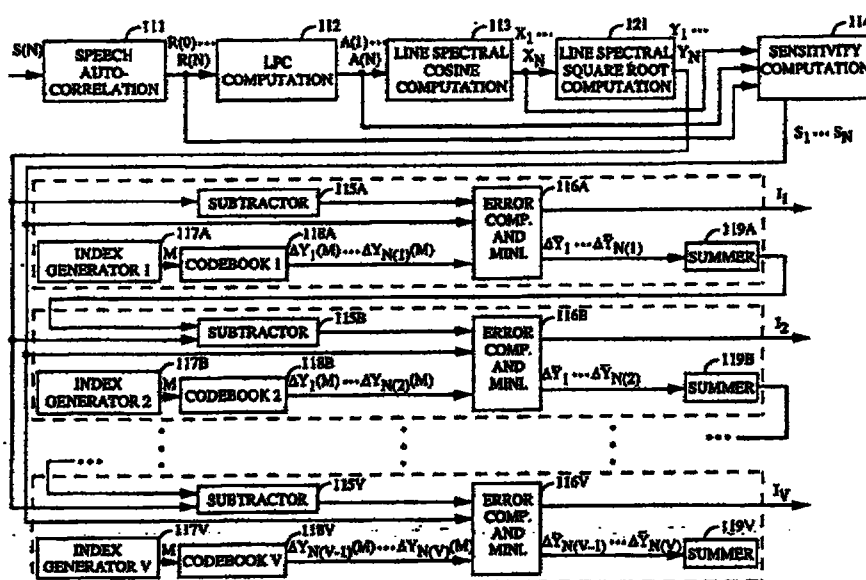
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(21) International Application Number: PCT/US96/12658 (22) International Filing Date: 1 August 1996 (01.08.96) (30) Priority Data: 509,848 1 August 1995 (01.08.95) US (71) Applicant: QUALCOMM INCORPORATED [US/US]; 6455 Lusk Boulevard, San Diego, CA 92121 (US). (72) Inventors: GARDNER, William, R.; 4650 Exbury Court, San Diego, CA 92130 (US). MANJUNATH, Sharath; 12682 Torrey Bluff Drive #235, San Diego, CA 92122 (US). MONTA, Peter; 7265 Charmant Drive #624, San Diego, CA 92122 (US). (74) Agent: MILLER, Russell, B.; QUALCOMM Incorporated, 6455 Lusk Boulevard, San Diego, CA 92121 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.

(54) Title: METHOD AND APPARATUS FOR GENERATING AND ENCODING LINE SPECTRAL SQUARE ROOTS



(57) Abstract

The present invention teaches of a method of encoding linear predictive coefficient data. The present invention transforms the linear predictive coefficient data into line spectral cosine data (103). The line spectral cosine data is used to generate two recursively defined vectors (104). The recursively defined vectors are used to compute a set of sensitivity autocorrelation values (106a-106N) and a set of sensitivity cross correlation (107a-107N). The line spectral cosine values are used to compute a set of line spectral square root values.