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(71) Applicant (for all designated States except US): AMATI COMMUNICATIONS, INC. [US/US]; Suite 303, 1975 El Camino Real West, Mountain View, CA 94040 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ASLANIS, James, T. [US/US]; Apartment 3211, 950 High School Way, Mountain View, CA 94041 (US). CHOW, Jacky, S. [US/US]; 333 Escuela Avenue #304, Mountain View, CA 94040 (US).

(74) Agents: HICKMAN, Paul, L. et al.; Hickman & Beyer, P.O. Box 61059, Palo Alto, CA 94304 (US).

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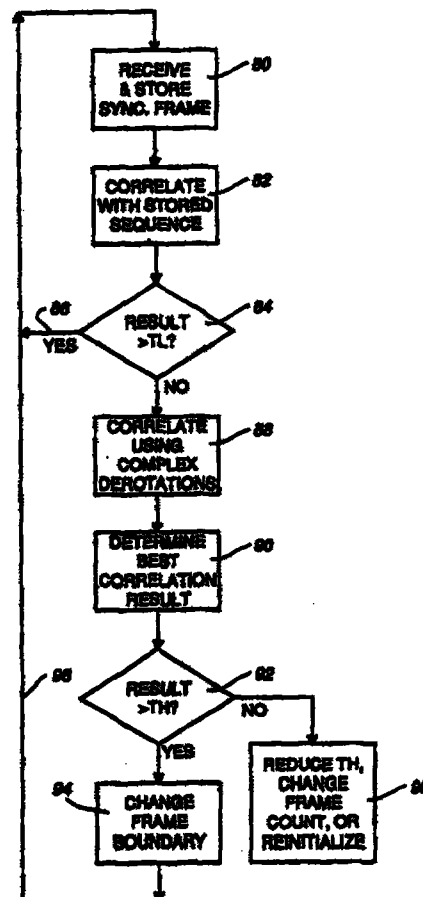
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(54) Title: FRAME SYNCHRONIZATION IN MULTICARRIER TRANSMISSION SYSTEMS

(57) Abstract

A discrete multitone modulation transmission system is described in which frame synchronization is monitored at the receiver by correlating frequency domain complex amplitudes of a synchronizing frame with a stored synchronizing pattern. If the correlation result falls below a threshold, indicating a loss of frame synchronization, a plurality of correlations are performed, in each case using the stored complex amplitudes of the synchronizing frame multiplied by a respective complex value representing a respective complex derotation corresponding to a respective possible time shift of the synchronizing frame. The best correlation result, if it exceeds another threshold, indicates a time shift for restoring frame synchronization, this being possible before the next synchronizing frame is received.



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