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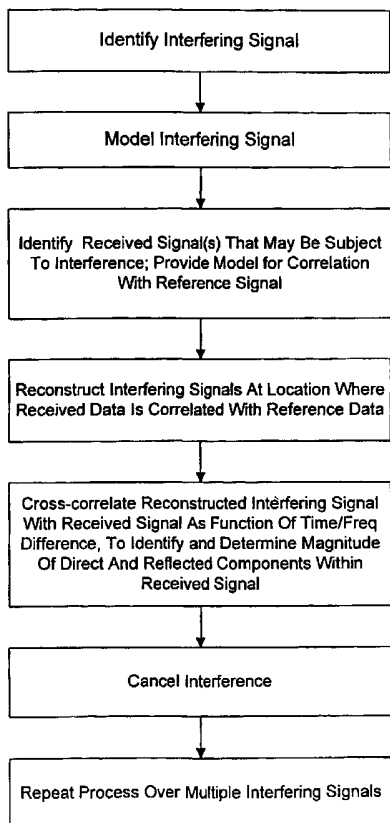
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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR INTERFERENCE CANCELLATION IN A LOCATION CALCULATION, FOR USE IN A WIRELESS LOCATION SYSTEM



(57) Abstract: In a Wireless Location System, reception and demodulation of signals is often performed at many sites. A collision may occur, e.g., in a TDMA, AMPS, GSM, GPRS, EDGE, CDMA, CDMA 2000, or WCDMA system, when a signal of interest (a transmission from a mobile transmitter to be located) and an interfering signal are received at the same time and at the same site. In the event such a collision occurs, the interfering signal may have been demodulated by a receiver system, or SCS, at another site, and the demodulated data be known by the TLP. This interferer can be reconstructed and subtracted from the raw data representing the combined signal of interest and interferer at the site where the collision occurred. This technique can provide significant (e.g., approximately 10 - 15 dB) interference rejection, with little degradation to the signal of interest.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

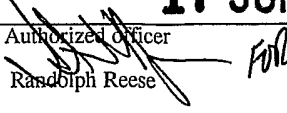
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,184,829 B1 (STILP et al) 06 February 2001 (06.02.2001), see entire document.	1-67
A	US 6,249,252 B1 (DUPRAY) 19 June 2001 (19.06.2001), see entire document.	1-67
A	US 4,740,792 (SAGEY et al) 26 April 1988 (26.04.1988), see entire document.	1-67
A	US 5,500,648 A (MAINE et al) 19 March 1996 (19.03.1996), see entire document.	1-67
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