

Title (en)  
METHOD AND SYSTEM FOR DETERMINING THE POSITION OF A MOBILE TERMINAL IN A CDMA MOBILE COMMUNICATIONS SYSTEM

Title (de)  
VERFAHREN UND SYSTEM ZUR BESTIMMUNG DER POSITION EINES MOBILEN ENDGERÄTES IN EINEM CDMA-MOBILKOMMUNIKATIONSSYSTEM

Title (fr)  
PROCEDE ET SYSTEME PERMETTANT DE DETERMINER LA POSITION D'UN TERMINAL MOBILE DANS UN SYSTEME DE COMMUNICATIONS MOBILE A ACCES MULTIPLE PAR CODE DE REPARTITION (AMCR)

Publication  
**EP 1068674 A2 20010117 (EN)**

Application  
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Priority  
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Abstract (en)  
[origin: WO9952235A2] A method and system are disclosed for determining the position of mobile stations (120) in a CDMA cellular system, in which each symbol (S1) to be transmitted by a mobile station (120) is first spread by a short code, and the resulting signal is further spread by a long code. The spreading code (C1) is divided into N-chip sections. Consequently, even if the transmitted symbols are unknown, the N-chip sections of the resulting signal are known (at least to within an unknown phase difference). The mobile station (120) then transmits the resulting spread signal. At the receiving base station, the received spread signal is correlated (and despread) with the known codes, and the original data is reconstructed. As such, the timing of the received signal can be determined with an accuracy of at least the time interval of the unknown phase difference.

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IPC 8 full level  
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