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(54) **Title:** COMMUNICATION METHOD, APPARATUS AND SYSTEM

(54) 发明名称: 通信方法、装置及系统

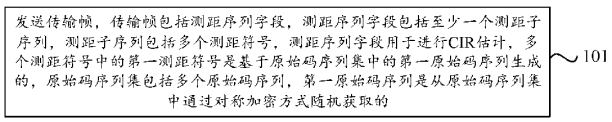


图 9

101 Send a transmission frame, wherein the transmission frame comprises a ranging sequence field, the ranging sequence field comprises at least one ranging sub-sequence, the ranging sub-sequence comprises a plurality of ranging symbols, and the ranging sequence field is used for CIR estimation, wherein a first ranging symbol among the plurality of ranging symbols is generated on the basis of a first source code sequence in a source code sequence set, the source code sequence set comprises a plurality of source code sequences, and the first source code sequence is randomly obtained from the source code sequence set in a symmetric encryption mode

(57) **Abstract:** The present application relates to the technical field of communications, and provides a communication method, apparatus and system. The communication method comprises: sending a transmission frame, wherein the transmission frame comprises a ranging sequence field, the ranging sequence field comprises at least one ranging sub-sequence, the ranging sub-sequence comprises a plurality of ranging symbols, and the ranging sequence field is used for CIR estimation, wherein a first ranging symbol among the plurality of ranging symbols is generated on the basis of a first source code sequence in a source code sequence set, the source code sequence set comprises a plurality of source code sequences, and the first source code sequence is randomly obtained from the source code sequence set in a symmetric encryption mode. The present application can realize high-precision positioning, and provide security protection for ranging information. The present application is used for data communication and positioning.

(57) 摘要: 本申请提供一种通信方法、装置及系统，属于通信技术领域，该通信方法包括：发送传输帧，传输帧包括测距序列字段，测距序列字段包括至少一个测距子序列，测距子序列包括多个测距符号，测距序列字段用于进行CIR估计；其中，多个测距符号中的第一测距符号是基于原始码序列集中的第一原始码序列生成的，原始码序列集包括多个原始码序列，第一原始码序列是从原始码序列集中通过对称加密方式随机获取的。本申请能够实现高精度定位，同时提供了对测距信息的安全防护。本申请用于进行数据通信和定位。

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