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(54) Title of the invention : METHOD AND SYSTEM FOR OBTAINING UNBREAKABLE COMMUNICATION CHANNELS WITH QUANTUM-SECURE PROTOCOLS

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(57) Abstract :
 METHOD AND SYSTEM FOR OBTAINING UNBREAKABLE COMMUNICATION CHANNELS WITH QUANTUM-SECURE PROTOCOLS ABSTRACT The present invention discloses a method for establishing unbreakable communication channels utilizing quantum-secure protocols. The method involves the generation of quantum key pairs at communicating entities, the transmission of quantum key information using quantum communication channels, and the subsequent verification of the integrity and authenticity of the quantum key information at the receiving entity. Upon successful verification, the method further includes utilizing the verified quantum key information to establish a secure communication channel. The innovation leverages quantum entanglement, quantum random number generation, and advanced cryptographic techniques to enhance the security of communication, making it resilient against quantum and classical threats. The disclosed method paves the way for robust and unbreakable communication, crucial in securing sensitive information in various domains, including but not limited to, telecommunications, financial transactions, and secure data transfer.

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