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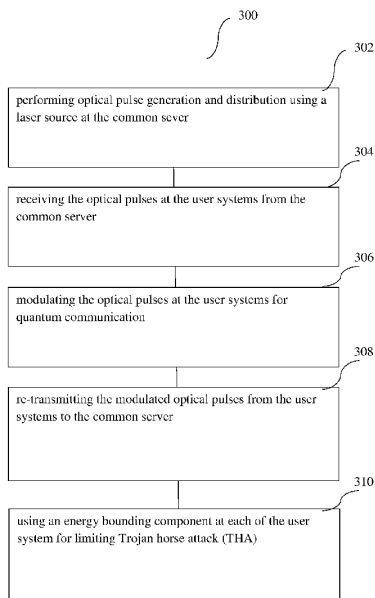


FIG. 3

(57) Abstract: A measurement-device-independent (MDI) quantum key distribution (QKD) network, a method of operating an MDI QKD network comprising a common server and a plurality of user systems, a user system for a MDI QKD network, and a method of operating a user system for a MDI QKD network. The method of operating an MDI QKD network comprising a common server and a plurality of user systems comprises the steps of performing optical pulse generation and distribution using a laser source at the common server; receiving the optical pulses at the user systems from the common server; modulating the optical pulses at the user systems for quantum communication; re-transmitting the modulated optical pulses from the user systems to the common server; and using an energy bounding component at each of the user system for limiting Trojan horse attack (THA).

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