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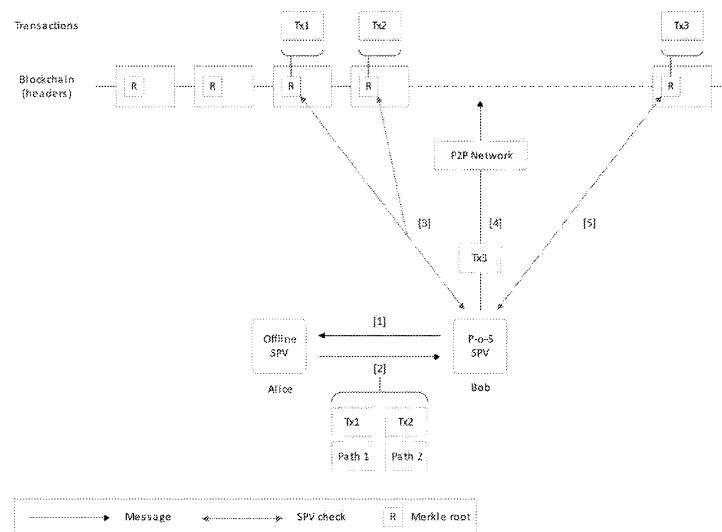
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(54) Title: COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR IMPLEMENTING TRANSFERS OVER A BLOCKCHAIN NETWORK



An illustrative embodiment of the invention

Figure 10

(57) Abstract: The invention provides improved Simplified Payment Verification (SPV) solutions for blockchain-implemented transfers. It is suited for, but not limited to, implementation in one or more SPV wallets, or on smart cards etc. In accordance with one embodiment, a method, system or resource(s) is provided which enables Alice to transfer an asset to Bob. Bob sends Alice a payment transaction template (template *Tx3*) and requests: the full transaction data for all input transactions (*Tx1*, *Tx2*) comprising at least one output that Alice wants to spend as inputs to a transfer (*Tx3*); the Merkle path for all input transactions (*Tx1*, *Tx2*) linking them to their respective Merkle roots associated with their respective block headers; the completed transfer transaction (*Tx3*). Alice provides this information plus her signature and optionally a change address. Bob can then perform local SPV checks on the input transactions *Tx1*, *Tx2* using transactions *Tx1* and *Tx2*, their corresponding Merkle paths *Path 1*, *Path 2*, and Bob's local list of block headers. Bob

[Continued on next page]

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