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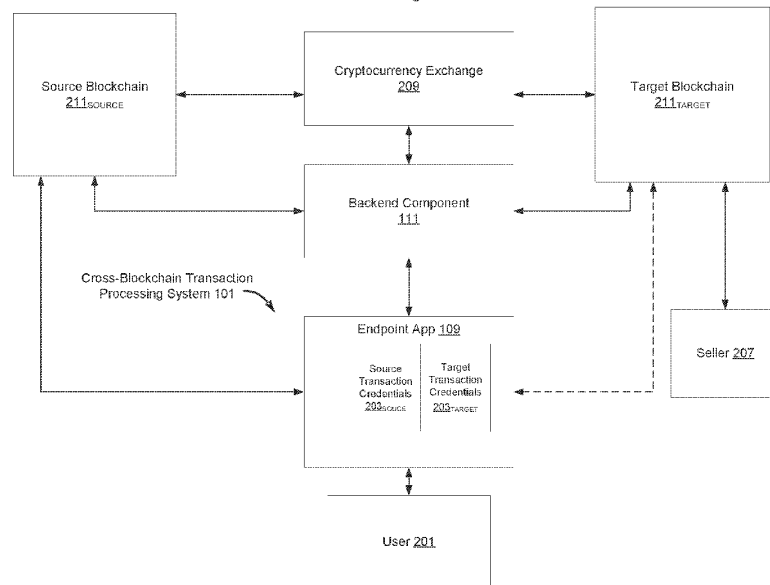
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(54) Title: AUTOMATED TRANSACTIONS ACROSS MULTIPLE BLOCKCHAINS WITH CRYPTOCURRENCY SWAPS



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Fig. 2



(57) Abstract: A user operating an endpoint app chooses to obtain a blockchain-based asset on a target blockchain. The user does not have blockchain transaction credentials for the target blockchain, but does have blockchain transaction credentials for a source blockchain. The endpoint app hierarchically creates target blockchain transaction credentials for the user, using an initial seed of entropy that was used to create the user's source blockchain transaction credentials. A backend component, automatically obtains an amount of target blockchain cryptocurrency sufficient to obtain the blockchain-based asset on the target blockchain, in exchange for source blockchain cryptocurrency of the user. The obtained target blockchain cryptocurrency and the hierarchically created target blockchain transaction credentials are used to automatically obtain the blockchain-based asset on the target blockchain, such that once the transaction is completed, the obtained blockchain-based asset is registered to the address of the user's hierarchically created target blockchain

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transaction credentials.