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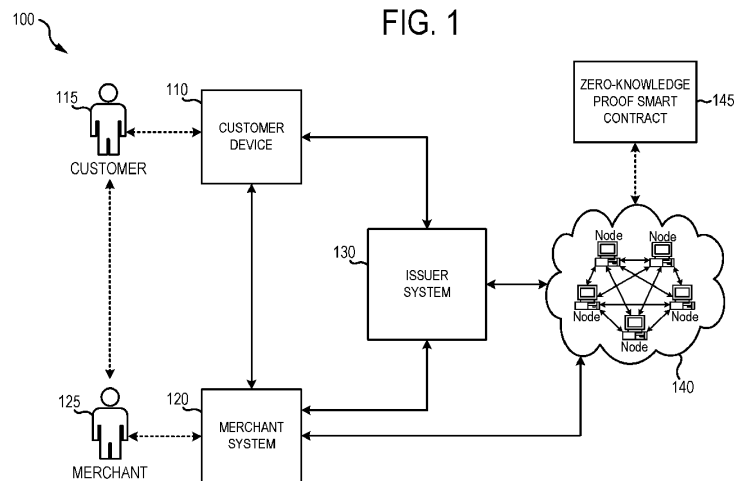
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(54) Title: ZERO-KNOWLEDGE PROOF PAYMENTS USING BLOCKCHAIN



(57) Abstract: A zero-knowledge proof purchase system and process using blockchain is disclosed. The system may comprise a customer device, a merchant system, an issuer system, and a blockchain network having a zero-knowledge proof (ZKP) smart contract. The system may implement a zero-knowledge proof algorithm having a key generator function, a proof function, and a validate function. Each function may be configured to perform various tasks in the system to support and enable zero-knowledge proof purchases.

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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