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(57) Abstract :

A blockchain-enabled system for secure digital identity management comprises an enrollment interface (101), an issuer administration server (102), a credential issuance engine (103), a cryptographic proof generator (104), a smart contract controller (105), a distributed blockchain network (106), a revocation registry (107), a holder wallet module (108), and a verifier gateway (109). Identity credentials are issued as signed digital records, stored in encrypted form for holder control, and anchored on a ledger through digest registration. Selective disclosure proofs enable privacy-conscious verification, while ledger-linked status validation supports trusted acceptance, revocation handling, and auditable identity lifecycle supervision.

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