

(54) Title of the invention : A BLOCKCHAIN-BASED SECURE SYSTEM FOR LEGAL RECORD STORAGE AND MANAGEMENT

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(57) Abstract :

Disclosed herein is a blockchain-based secure system for legal record storage and management (100) comprises a frontend interface (102), configured to allow users to upload, access, and visualize legal records through an interactive graphical user interface. The system also includes a backend architecture (104), operable to handle authentication, authorization, data routing, and integration with decentralized storage and blockchain services. The system also includes a blockchain integration module (106), configured to register metadata of each legal record on a blockchain network. The system also includes a decentralized storage unit (108), configured to store actual legal record files outside the blockchain in a tamper-proof and immutable manner. The system also includes a security engine (110), configured to ensure end-to-end encryption of data in transit and at rest, and to verify the integrity and authenticity of records using blockchain-stored hash values.

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