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Patent Search

Invention Title	BLOCKCHAIN-POWERED SECURE IDENTITY VERIFICATION SYSTEM
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Abstract:

ABSTRACT BLOCKCHAIN-POWERED SECURE IDENTITY VERIFICATION SYSTEM A Blockchain-Powered Secure Identity Verification System (100) provides a decentralized
for verifying digital identities using blockchain and cryptographic technologies. The system includes decentralized identity storage (102), an AI-driven fraud detection
(104), a zero-knowledge proof engine (106), a time-bound selective disclosure smart contract (108), a cross-blockchain identity portability protocol (110), and a quantu
cryptographic module (112). These components work together to ensure privacy-preserving, tamper-proof, and interoperable identity verification. The system integra
factor authentication, AI-based anomaly detection, and smart contract automation for secure, efficient verification. Advanced cryptography and decentralized recover
enhance data protection and user trust. This invention establishes a scalable, transparent, and privacy-compliant solution for digital identity management across vari
industries and jurisdictions.

Complete Specification

Description:BLOCKCHAIN-POWERED SECURE IDENTITY VERIFICATION SYSTEM

FIELD OF THE DISCLOSURE
[0001]   The present invention relates to digital identity management and security systems. More particularly, it concerns a blockchain-powered secure identity veri
system that provides decentralized, immutable, and privacy-preserving identity verification for users across multiple platforms, thereby enhancing digital trust, dat
protection, and authentication efficiency.

BACKGROUND
[0002]   The subject matter discussed in the background section should not be assumed to be prior art merely as a result of its mention in the background section.
Similarly, a problem mentioned in the background section or associated with the subject matter of the background section should not be assumed to have been pr
recognized in the prior art. The subject matter in the background section merely represents different approaches, which in and of themselves may also correspond
implementations of the claimed technology.
[0003]   Traditional identity verification mechanisms depend on centralized databases that often face vulnerabilities such as data breaches, unauthorized access, a
manipulation of records. These systems create a single point of failure, allowing attackers to exploit weaknesses and compromise user data. The dependency on
intermediaries in identity verification also increases operational costs and slows down processes in digital ecosystems.

[View Application Status]

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