

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341066958 A

(19) INDIA

(22) Date of filing of Application :05/10/2023

(43) Publication Date : 20/10/2023

(54) Title of the invention : METHOD AND SYSTEM FOR IMPLEMENTING BLOCKCHAIN-BASED SECURE IDENTITY VERIFICATION PROTOCOL

<p>(51) International classification :H04L0009320000, H04L0009060000, H04L0009080000, H04L0009140000, G06Q0020380000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)RVR &amp; JC COLLEGE OF ENGINEERING</b> Address of Applicant :RVR &amp; JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)DR. R. LAKSHMI TULASI</b> Address of Applicant :COMPUTER SCIENCE AND ENGINEERING RVR &amp; JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur -----</p> <p><b>2)DR. K. SIVA KUMAR</b> Address of Applicant :COMPUTER SCIENCE AND ENGINEERING RVR &amp; JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur -----</p> <p><b>3)SMT. S.J. R. K. PADMINI VALLI</b> Address of Applicant :COMPUTER SCIENCE AND ENGINEERING RVR &amp; JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur -----</p> <p><b>4)SRI P. RAMA KRISHNA</b> Address of Applicant :COMPUTER SCIENCE AND ENGINEERING RVR &amp; JC COLLEGE OF ENGINEERING CHANDRAMOULIPURAM, CHOWDAVARAM, GUNTUR PIN - 522 019 Guntur -----</p>
---	--

(57) Abstract :  
**METHOD AND SYSTEM FOR IMPLEMENTING BLOCKCHAIN-BASED SECURE IDENTITY VERIFICATION PROTOCOL**  
**ABSTRACT** The present invention discloses a method and system for implementing a secure identity verification protocol using blockchain technology. A unique digital identifier is generated for individuals and securely recorded on a blockchain ledger using cryptographic encryption. The blockchain network employs decentralized consensus mechanisms, such as proof of work or proof of stake, to validate and ensure the authenticity of the recorded digital identifier. Additional identity-related information may be associated with the digital identifier on the blockchain ledger, enhancing the richness of the identity verification process. By leveraging Blockchain's decentralized, immutable, and transparent nature, this invention provides a robust and tamper-resistant solution for secure identity verification, paving the way for enhanced trust and efficiency in various domains requiring reliable identity validation.

No. of Pages : 21 No. of Claims : 10