

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311064588 A

(19) INDIA

(22) Date of filing of Application :26/09/2023

(43) Publication Date : 13/10/2023

(54) Title of the invention : DIGITAL ASSET AND PERSONALLY IDENTIFIABLE INFORMATION (PII) PROTECTION USING BLOCKCHAIN TECHNOLOGY

<p>(51) International classification :G06F0021620000, H04L0009320000, H04L0009060000, G06F0021600000, H04L0009080000</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)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>2)Bluest Mettle Solutions Private Limited</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)MISHRA, Saket</b> Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p><b>2)PANDEY, Sakshi</b> Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p><b>3)PANDA, Surya Narayan</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
---	---

(57) Abstract :

In the era of interconnected digital ecosystems, safeguarding both digital assets and personally identifiable information (PII) has emerged as a paramount challenge. The present disclosure presents a comprehensive system leveraging the capabilities of blockchain technology (108) to provide robust protection for digital assets and sensitive PII. Through the integration of distributed ledgers, cryptographic encryption, and smart contract (110) automation, the proposed system establishes a fortified framework to counter data breaches, unauthorized access, and privacy infringements. It highlights how blockchain's decentralization and tamper-resistant characteristics ensure the integrity of digital assets while enhancing user (102) privacy. Real-world case studies illuminate the system's effectiveness in securing asset ownership records and managing consent-driven access to PII. With an emphasis on adaptability and compliance, this disclosure underscores the potential of blockchain technology (108) to revolutionize the protection of digital assets and PII, bolstering data security and privacy across diverse sectors in our digitally interconnected world.

No. of Pages : 30 No. of Claims : 10