

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/06/2025

(21) Application No.202531058376 A

(43) Publication Date : 04/07/2025

(54) Title of the invention : DECENTRALIZED BLOCKCHAIN-BASED SYSTEM FOR SECURE STORAGE, VERIFICATION, AND RETRIEVAL OF LEGAL DOCUMENTS

(51) International classification	:H04L0009320000, H04L0009000000, H04L0009400000, G06F0021640000, G06F0021600000	(71) <b>Name of Applicant :</b> <b>1)Brainware University, Kolkata</b> Address of Applicant :398, Ramkrishnapur Rd, Near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- <b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)Dr. Sudipta Adhikary</b> Address of Applicant :Associate Professor, Department of Law, Brainware University, 398, Ramkrishnapur Road, Barasat, Near Jagadighata Market, Kolkata, West Bengal- 700125 ----- <b>2)Dr. Gunjan Mukherjee</b> Address of Applicant :Professor, Department of Computational Sciences, Brainware University, 398, Ramkrishnapur Road, Barasat, Near Jagadighata Market, Kolkata, West Bengal- 700125 ----- <b>3)Dr. Kaushik Banerjee</b> Address of Applicant :Professor, Department of Law, Brainware University, 398, Ramkrishnapur Road, Barasat, Near Jagadighata Market, Kolkata, West Bengal- 700125 ----- <b>4)Dr. Paramita Bhattacharyya</b> Address of Applicant :Assistant Professor, Department of Law, Brainware University, 398, Ramkrishnapur Road, Barasat, Near Jagadighata Market, Kolkata, West Bengal- 700125 ----- <b>5)Dr. Kaushik Chanda</b> Address of Applicant :Associate Professor at Brainware University, 398, Ramkrishnapur Road, Barasat, Near Jagadighata Market, Kolkata, West Bengal- 700125 ----- <b>6)Mr. Subhadip Nandi</b> Address of Applicant :Assistant Professor at Brainware University, 398, Ramkrishnapur Road, Barasat, Near Jagadighata Market, Kolkata, West Bengal- 700125 ----- <b>7)Mr. Aryabhatta Ganguly</b> Address of Applicant :Assistant Professor, Department of Computational Sciences Brainware University, 398, Ramkrishnapur Road, Barasat, Near Jagadighata Market, Kolkata, West Bengal- 700125 -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[038] The invention discloses a decentralized system for the secure storage, verification, and retrieval of legal documents using blockchain technology. By combining immutable blockchain ledgers with encrypted off-chain storage, the system ensures the integrity, confidentiality, and authenticity of legal records such as contracts, certificates, and court judgments. Smart contracts automate access control and document validation, enabling authorized users to securely upload, verify, and audit documents without reliance on central authorities. This innovative framework addresses prevalent issues of document forgery, unauthorized modifications, and inefficient verification, offering a scalable, transparent, and tamper-proof solution adaptable to multiple jurisdictions and legal sectors. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 19 No. of Claims : 10