(54) Title of the invention : BLOCKCHAIN-BASED DECENTRALIZED STORAGE SYSTEM AND METHOD

(51) International classification : G06F 095400, G06Q 203800, H04L 093200, H04L 671040, H04L 671097	(71)**Name of Applicant :** 1)**Chitkara University** Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- ----------- 2)**Bluest Mettle Solutions Private Limited** **Name of Applicant : NA** **Address of Applicant : NA** (72)**Name of Inventor :** 1)**MISHRA, Rahul** Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- ----------- 2)**PANDEY, Sakshi** Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- ----------- 3)**SHARMA, Manish** Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
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(57) Abstract :

A blockchain-based decentralized storage system (100) comprising a plurality of nodes (102) distributed across a blockchain network (106) and a processing unit (104) in communication with the plurality of nodes (102), and operatively coupled with a blockchain ledger. The system (100) is configured to obtain data packets from one or more users (110) and split the obtained data packets into more than one fragment and distribute the more than fragments among the plurality of nodes (102). Further, the system is configured to receive a request from at least one of the one or more users (110) and retrieve, based on the received request, the data packets by integrating the more than one fragment from the plurality of nodes (102). Furthermore, the system (100) is configured to maintain integrity by verifying the stored data packets and ensure data security and access control within the decentralized storage system (100).

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