

(54) Title of the invention : SECURE DATA STORAGE AND RETRIEVAL IN CLOUD COMPUTING USING HOMOMORPHIC ENCRYPTION

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(57) Abstract :  
 “SECURE DATA STORAGE AND RETRIEVAL IN CLOUD COMPUTING SYSTEM USING HOMOMORPHIC ENCRYPTION”  
 The present invention provides secure data storage and retrieval in cloud computing system using homomorphic encryption. The processor is adapted to perform tasks such as accessing an information identifier for each of a plurality of information of the user; encrypting the information identifier for each of the plurality of information of the user to form a sequence of information; combining each of the plurality of information of the user and based on sequential encryption, the identifier and the encrypted information identifier using a mathematical operation to generate an encrypted number, wherein the sequential encryption combines information with its encrypted number identifier using a mathematical operation and an adjacent encrypted information identifier using an inverse mathematical operation; and directing, for each of the plurality of information, that the encrypted number be stored. Figure 1

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