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(54) Title of the invention : INTEGRATED SYSTEM WITH KEY GENERATION AND ENCRYPTION FOR SECURING DOCUMENTS

(51) International classification : H04L0009080000, H04L0009320000, G11B0020000000, H04L0009300000, H04L0009140000	(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)**PANDA, Surya Narayan** Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- ----------- 2)**MISHRA, Rahul** Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- ----------- 3)**SINGH, Dhiraj** Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- -----------
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(57) Abstract :
The present disclosure relates to an integrated system (100) with key generation and encryption for securing documents. The system (100) includes an encryption unit (104) and a key unit (106) configured in a housing (102) and communicatively coupled to one or more computing devices (108) and operated by one or more users through a network (110). The encryption unit (104) is configured to send an encryption key based on a password provided by the one or more users while the key unit (106) is configured to send the token to the encryption unit (104). Further, the encryption unit (104) includes a processing unit (112) configured to receive the token from the key unit (106) and generate a key for encrypting a document using one or more techniques. Additionally, the processing unit (112) decrypts a document based on the key provided by the one or more users.

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