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(31) Priority Document No	:NA	1)GOYAL, Nitin
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(57) Abstract :

The present disclosure relates to amethod for secure transmission of data through a network, the method comprising:receivingan authentication requestencrypted by a first generated encryption factor, from each of the cluster head nodes (104), each of the cluster head nodesconfigured to receive data from sensor nodes (102);receiving a hash value signed with the first generated encryption factor; decryptingfor each of the gateway nodes (106)the authentication request from the at least one of the cluster head nodes (104) operatively coupled to it using a second generated encryption factor, wherein each of the gateway nodes is configured to generate an authentication confirmation signal; receiving data from the at least one cluster head node, wherein the data from the at least one cluster head node is transmitted to a base station (108) to determine the integrity of the received data based on the hash value.

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