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(71)**Name of Applicant :**
1)Chitkara Innovation Incubator Foundation
Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(72)**Name of Inventor :**
1)ADITYA

(57) Abstract :
The present disclosure provides a method for information transfer using over long distance using a pair of electrically coupled, negatively charged sub-atomic particles. The method pertains to entrapping a Cooper pair of negatively charged sub-atomic particles using a first and a second single electron transistor, followed by determination of spin states of the trapped negatively charged sub¬atomic particles using a first and a second Stern-Gerlach apparatus. The method pertains to placing the trapped pair of negatively charged sub-atomic particles at a first and a second location, the first and second locations being separated by long distance. The method pertains to controlling spin states of the negatively charged sub-atomic particles by application of beams of light and a second magnetic field. Inversion of spin state of any or a combination of the pair of negatively charged sub-atomic particles are encoded in form of digital information, the change of spin state at the first location being configured to induce a change of spin state in the second location.

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