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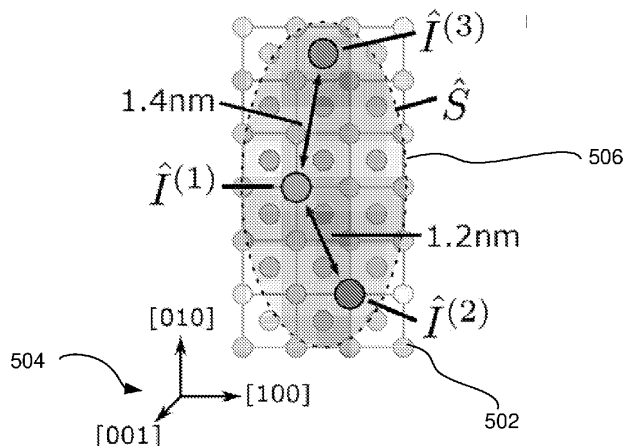


Fig. 5A

(57) Abstract: Aspects of the present disclosure provide a quantum processing device comprising: a nuclear spin register comprising at least two nuclear spin qubits; at least one unpaired electron coupled to the nuclear spin register; and a control system configured to: control and/or readout the electron spin qubit; control and/or readout a nuclear spin qubit; and reduce errors arising from dipolar coupling between the nuclear spin qubits and/or between the electron spin and nuclear spins.

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