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(54) Title: SYSTEMS AND METHODS INVOLVING UNIFORM QUANTUM COMPUTING MODEL(S) BASED ON VIRTUAL
QUANTUM PROCESSORS

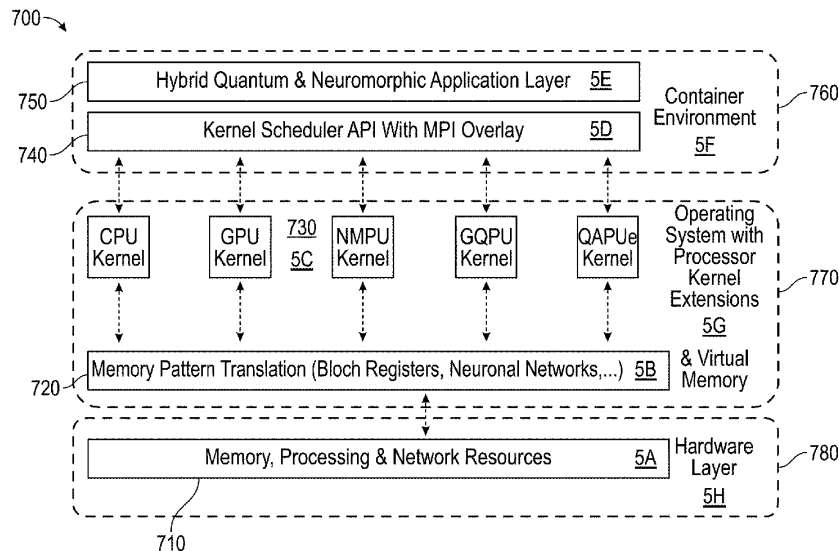


FIG. 7

(57) Abstract: The present innovations relate to systems and methods associated with performing virtualized quantum processing. According to embodiments herein, an exemplary method may involve initializing qubits with classical meta information, initializing gate circuits between the qubits with the classical meta information, processing a given quantum circuit by transforming all qubits by unitary matrices, measuring the qubits to retrieve classical information, and processing the classical information, wherein the method is implemented via an information process stack, preferably comprised of a hardware layer, an operating system coupled to the hardware stack, and a container environment coupled to the operating system. In some implementations, a Bloch sphere is built into an intermediate representation of a memory pattern within the main memory in such a way that associated same state vectors $|\psi\rangle$ are fully represented within the memory pattern along with the classical information $|0\rangle$ and $|1\rangle$.

[Continued on next page]

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