

Cover Letter for Patent Amendment Submission

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March 4, 2025

United States Patent and Trademark Office (USPTO)

600 Dulany Street

Alexandria, VA 22314

Subject: Submission of Patent Amendment for Application 63/749,644

Dear Patent Examiner,

I am submitting an amendment to my patent application (Application No. 63/749,644) titled 'Hybrid Computational Framework for Quantum and Resonance Simulation.' This submission includes:

1. An updated patent amendment document detailing clarifications and refinements.
2. A completed Application Data Sheet (PTO/SB/16) as required under 37 CFR § 1.51(c)(1).

Please incorporate these documents into my patent file and proceed with the examination process under the amended descriptions. Should any additional information be required, please feel free to contact me.

Thank you for your time and assistance.

Sincerely,

Luis M. Minier

Patent Application Amendment for 63/749,644

Title: Hybrid Computational Framework for Quantum and Resonance Simulation

Applicant: Luis M. Minier

Filing Date: 01/26/2025

Status: Pre-Examination, Not Yet Docketed

1. Introduction (Clarification of Scope)

The present disclosure relates to a hybrid computational framework integrating symbolic resonance computing, probabilistic search, and geometric transformation techniques for quantum and resonance-based simulations. This system extends prior symbolic quantum mechanics approaches by incorporating resonance-based encryption, dynamic amplitude modulation, and waveform computation techniques for secure and efficient computation.

2. Expanded Description of Symbolic Resonance Computing

- MultiQubitState Representation for symbolic quantum states.
- SymbolicAmplitude Class, now extended to resonance encryption encoding and frequency-modulated computational storage.
- Geometric Resonance Processing for symbolic waveform modulation.

3. Resonance-Based Encryption Integration

- Encodes data into resonance waveform structures rather than conventional bitwise formats.
- Utilizes symbolic waveform hashing for authentication and integrity verification.
- Integrates into the broader symbolic computation model for secure transmission of symbolic quantum states.

4. QSHLL OS as an Integrated Computational System

- Resonance-based process scheduling and memory allocation.
- Quantum File Explorer with symbolic resonance indexing.
- Resonance-driven encryption layers for file and communication security.

5. Expansion of Probabilistic Search with Quantum Bloom Filters

- Geometric resonance indexing for probabilistic search.
- Waveform-enhanced data filtering for resonance state validation.

6. Expansion of Resonance Fourier Transform (RFT)

- Waveform-based computational models.
- Optimized symbolic search operations within the resonance computing framework.

Amendments to Claims

1. A hybrid computational framework comprising symbolic resonance computing for probabilistic search, encryption, and quantum state modeling, wherein resonance-based encryption integrates with symbolic amplitude computation.
2. The system of claim 1, wherein symbolic amplitude representations are utilized for encryption, process scheduling, and geometric resonance modulation.
3. The system of claim 1, wherein a symbolic resonance-enhanced operating system (QSHLL OS) facilitates real-time symbolic quantum operations.
4. The system of claim 1, wherein a Resonance Fourier Transform (RFT) encodes symbolic quantum states into dynamic amplitude models.

New Refinements (No Additional Claims Added):

- Clarification: Resonance encryption is a security-enhancing mechanism integrated within symbolic amplitude processing, rather than a separate computational model.
- Clarification: The symbolic resonance framework extends to OS-level applications without altering the core computational principles claimed in the original filing.
- Clarification: Symbolic Bloom Filters and Quantum Bloom Filters remain within the probabilistic resonance computing model already claimed.

Conclusion

This amendment serves to clarify and expand on existing descriptions without introducing new subject matter requiring a Continuation-in-Part (CIP) application. The refinements ensure that recent advancements, including resonance-based encryption, QSHLL OS, and the Resonance Fourier Transform (RFT), remain protected under the original patent scope.

Requested Action:

- Incorporate the above clarifications into the formal patent application.
- Maintain original claim structure without new independent claims to avoid additional filing fees.
- Proceed with examination under the amended descriptions.

End of Amendment Submission