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PUBLICATION OF THE PATENT OFFICE

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10th October, 2025

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**THE PATENT OFFICE
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(54) Title of the invention : METHOD AND SYSTEM FOR OPTIMISED PRIME NUMBER FACTORIZATION USING ADVANCED ALGEBRAIC STRUCTURES

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(57) Abstract :

The present invention provides a method and system for optimized prime number factorization using advanced algebraic structures, including groups, rings, lattices, and matrix representations. The method generates candidate factors through algebraic operations, modular arithmetic, and lattice or matrix-based transformations, thereby reducing the computational search space and improving factorization efficiency. The system integrates a pre-processing module for algebraic representation, an optimization engine for candidate generation, a factorization engine for computing factors, and a verification module to ensure correctness and primality. This approach enables accurate, scalable, and high-speed factorization of large integers on classical computing systems, making it suitable for cryptographic and mathematical applications.

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