FIG. 4 - FEDERATED LEARNING FOR PROTOCOL OPTIMIZATION

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MULTI-INSTITUTIONAL FEDERATED AI LEARNING ŞΣ ⟨/> 400 408 416 **INSTITUTION A INSTITUTION B INSTITUTION C** 418 ocal Al Agent **402**Local Al Agent 410 ocal Al Agent Protocol Selector Protocol Selector Protocol Selector n Data ocal) n Data ocal) 422 Model Parameters (Shareable) 406 Model Parameters (Shareable) 414 Model Parameters (Shareable) 424 SECURE AGGREGATION Privacy-Preserving Parameter Sharing Model Updates Model Updates **GLOBAL AI MODEL** Optimized Protocol Selection Intelligence 428 **FEDERATED LEARNING BENEFITS** Privacy: No raw data sharing between institutions • Collective Intelligence: Learn from all experiences • Regulatory Compliance: Data stays local • Improved Accuracy: Larger effective dataset

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