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(54) Title: SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR SAVING MEMORY DURING TRAINING OF KNOWLEDGE GRAPH NEURAL NETWORKS

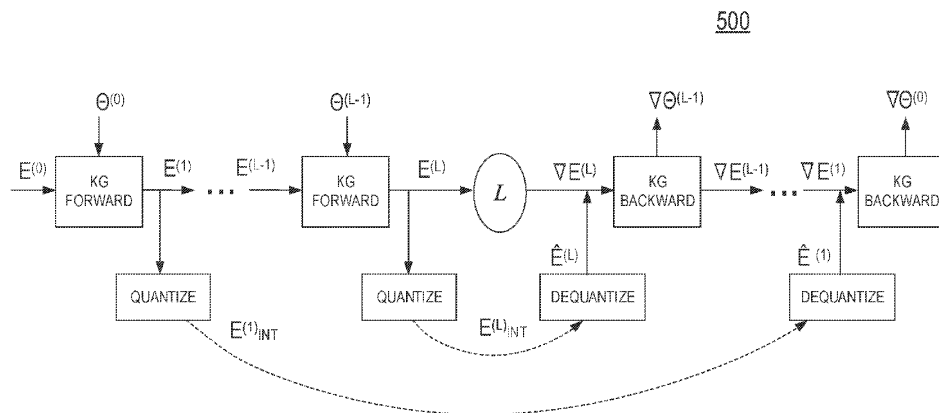


FIG. 5

(57) Abstract: Systems, methods, and computer program products are provided for saving memory during training of knowledge graph neural networks. The method includes receiving a training dataset including a first set of knowledge graph embeddings associated with a plurality of entities for a first layer of a knowledge graph, inputting the training dataset into a knowledge graph neural network to generate at least one further set of knowledge graph embeddings associated with the plurality of entities for at least one further layer of the knowledge graph, quantizing the at least one further set of knowledge graph embeddings to provide at least one set of quantized knowledge graph embeddings, storing the at least one set of quantized knowledge graph embeddings in a memory, and dequantizing the at least one set of quantized knowledge graph embeddings to provide at least one set of dequantized knowledge graph embeddings.

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WO 2023/215214 A1

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