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(54) Title: CONTINUOUSLY UPDATED MACHINE LEARNING MODELS

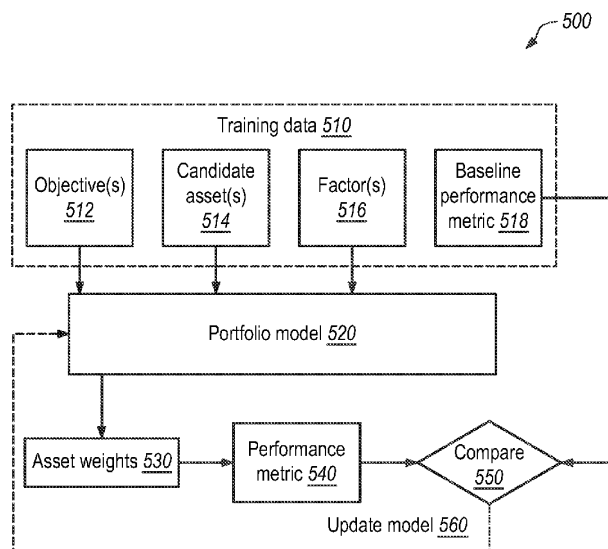


FIG. 5

(57) **Abstract:** In an embodiment, a one or more non-transitory computer-readable storage media includes receiving account specifications, training a machine-learning model using training data derived from the account specifications to produce a trained machine-learning model capable of outputting a recommendation of a particular asset portfolio, determining an asset portfolio by inputting a particular account specification into the machine-learning model, determining a performance metric for the asset portfolio based on synthetic data and historic data, determining a reference performance metric based on a reference asset portfolio and the synthetic and historic data, comparing the performance metric for the asset portfolio with the reference performance metric to result in a decision of whether to re-train the machine-learning model, re-training the machine-learning model based on updated training data and the synthetic and historic data, automatically executing trades for an updated asset portfolio determined by the re-trained machine-learning model, and repeating

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the re-training continuously based on a specified frequency or timing.