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- (54) **Title:** SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR INCREMENTAL LEARNING

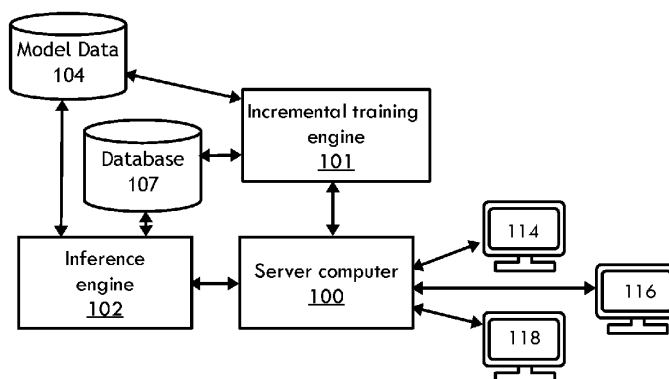


FIG. 1

- (57) **Abstract:** Systems, methods, and computer program products for incremental learning are provided. A system includes at least one processor programmed or configured to execute a first machine-learning model for each input of a plurality of inputs associated with a plurality of requests in a production environment, determine to train the first machine-learning model based on at least one rule, in response to determining to train the first machine-learning model, creating a second machine-learning model including weights from the first machine-learning model, train the second-machine learning model with the model data stored in the at least one data storage device, determine whether to replace the first machine-learning model with the second machine-learning model, in response to determining to replace the first machine-learning model with the second machine-learning model, and replace the first machine-learning model with the second machine-learning model in the production environment.

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NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,
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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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