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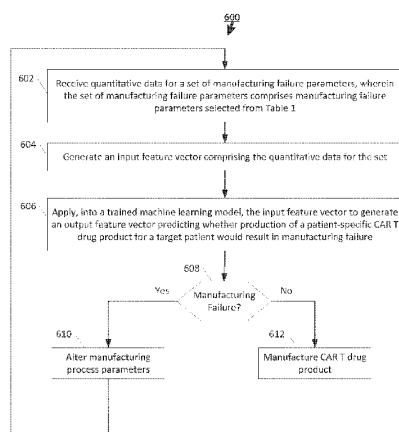


FIG. 6A

(57) Abstract: Systems and methods are disclosed for predicting manufacturing failure in a production of a patient-specific CAR T drug product for a target patient. An example method includes: receiving quantitative data for a set of manufacturing failure parameters; generating an input feature vector comprising the quantitative data for the set of manufacturing failure parameters; and applying, into a trained machine learning model, the input feature vector to generate an output feature vector predicting whether the production of the patient-specific CAR T drug product would result in the manufacturing failure.

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