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(54) Title: SYSTEMS, METHODS, AND COMPUTER-READABLE MEDIA FOR PROVIDING A MAINTENANCE RECOMMENDATION FOR A CATALYST

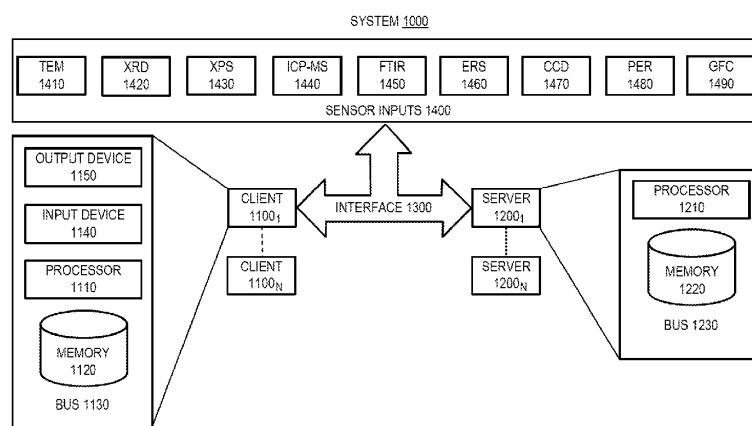


FIG. 1

(57) Abstract: Methods, systems, and computer readable media are disclosed for providing a maintenance recommendation for a catalyst based on a trained machine learning model. The method includes: extract training data comprising one or more parameters from each catalyst of a plurality of catalysts; classify the training data in accordance with at least one catalyst feature at least one of the contaminations of the catalyst; determine a feature vector from the classified training data based on the one or more parameters extracted from catalyst of the plurality of catalysts; generate a performance baseline curve from the training data in accordance with the destruction removal efficiency (DRE) of a gas; and provide based on the trained machine learning model a maintenance recommendation for the catalyst.

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