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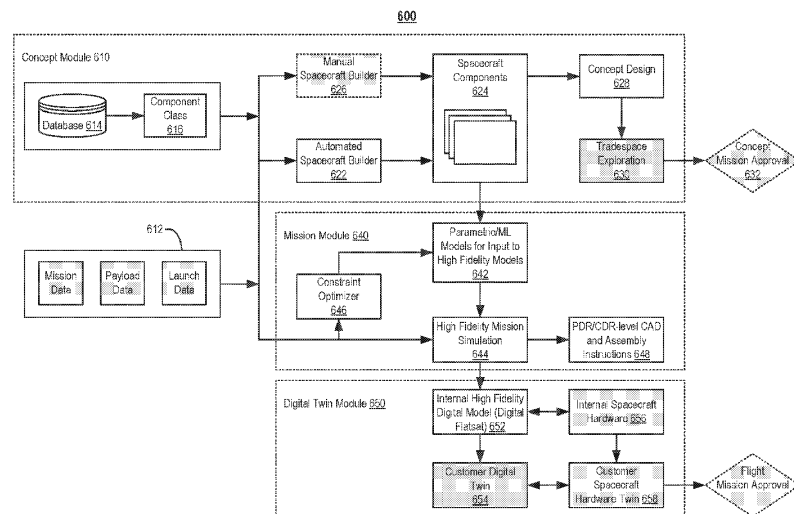


FIG. 6

(57) Abstract: A method for automated spacecraft design includes receiving mission parameters provided by a client for spacecraft design, generating one or more concept designs based on the received mission parameters, each concept design including one or more components selected for each subsystem included in a designed spacecraft, for each concept design, generating a CAD model including a collection of CADs representing structures of the one or more components selected for each subsystem included in the designed spacecraft, performing a series of analyses or simulations to evaluate a performance of the CAD model, and generating a digital twin representing a virtual representation of the designed spacecraft.

[Continued on next page]

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