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Remarks:
Amended claims in accordance with Rule 137(2) EPC.

(54) **METHOD FOR PROVIDING AN AUTOMATIC SOFTWARE DEVELOPMENT/GENERATION AND DEPLOYMENT FUNCTIONALITY IN AT LEAST ONE VEHICLE AND CORRESPONDING BACKEND SERVER SYSTEM**

(57) The invention is concerned with a method (19) for providing a new software-based functionality (F) in at least one vehicle (12). The method (19) comprises the following steps: a digital model generation engine (23) generates a functionality model (24) of the functionality (F) on the basis of requirement data (20) that describe at least one requirement (21) that is to be fulfilled by the new functionality (F); a digital model transformation engine (25) transforms the functionality model (24) into a software code (18); a digital testing engine (26) generates at least one virtual testing scenario (27) on the basis of the functionality model (24) and verifies correct fulfillment of the at least one requirement (21) by the software code (18); and an update system (28) and/or function-on-demand system installs the software code (18) in the at least one vehicle (12) using a remote update connection (14).

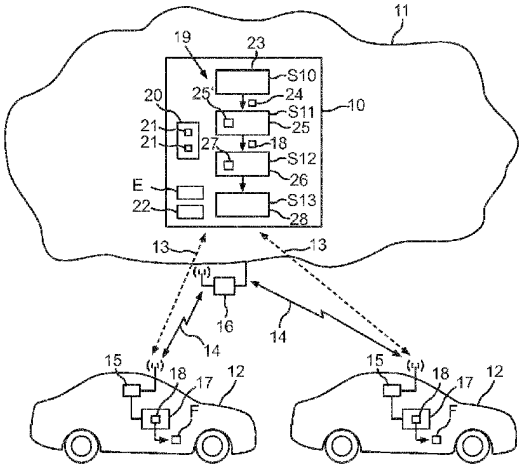

Fig.

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