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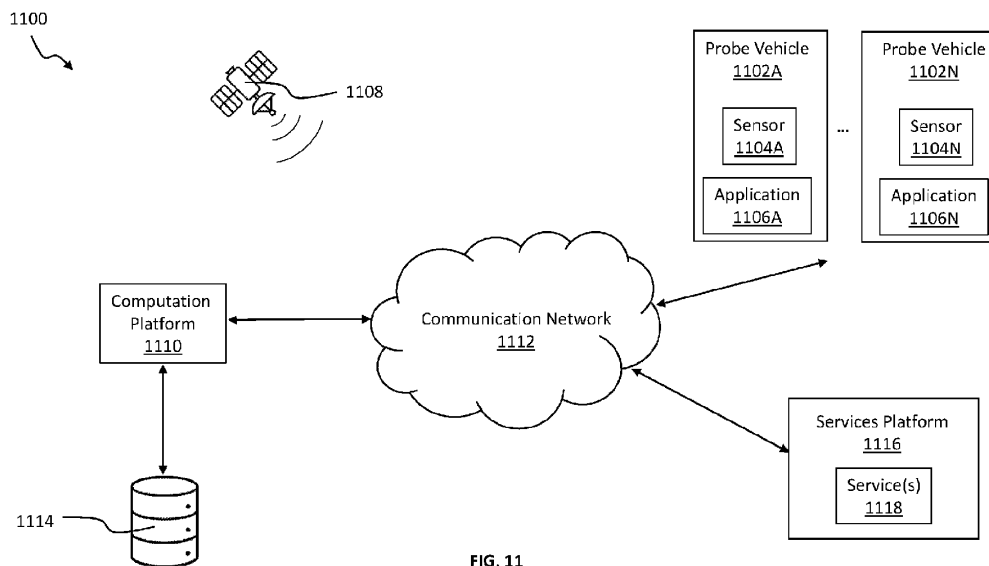


FIG. 11

(57) Abstract: A method for determining a route may include: obtaining input data from a user, the input data including an indication of an origin and a destination for a trip in a road network; obtaining real-time traffic data from a plurality of probe vehicles spatially distributed across the road network; and obtaining a past traveled route from the plurality of probe vehicles, the past traveled route indicating a sequence of road segments traveled in the trip. The method may further include determining, using a first neural network, a representation of the past traveled route; determining, using a second neural network, a representation of the real-time traffic data; determining, using an adjoint generative process, a representation of the destination; and determining a next road segment for the trip based on the representation of the past traveled route, the representation of the real-time traffic data, and the representation of the destination.

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