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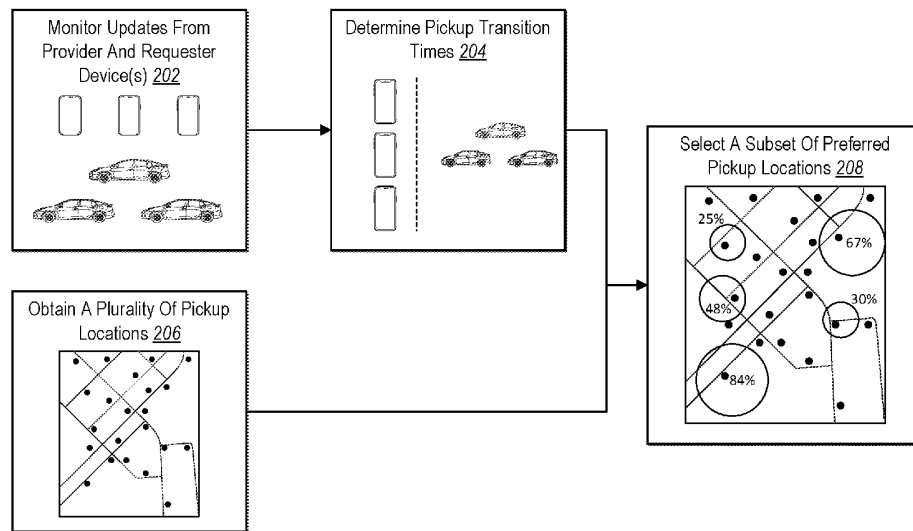


Fig. 2

(57) Abstract: This disclosure describes an AV transition location system that can utilize computer implemented models to analyze updates from provider devices and requester devices, determine transition times for a variety of locations within various geographic areas, and intelligently select transition locations for autonomous vehicles or other provider devices based on the transition times. In particular, in one or more embodiments the disclosed systems utilize geohash mapping combined with provider device telematic data to establish a measure of pickups that satisfy transition time characteristics in given geographic areas. Depending on unique features required by the provider devices, the disclosed systems can provide a subset of preferred pickup locations to accurately and efficiently navigate autonomous devices.

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