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(54) Title: AUTONOMOUS DRIVING EVALUATION USING DATA ANALYSIS

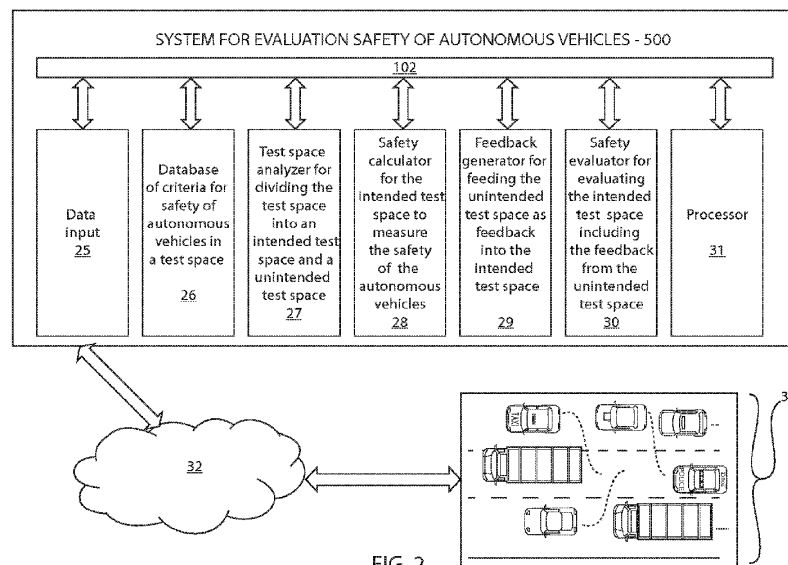


FIG. 2

(57) **Abstract:** A computer implemented method for evaluating autonomous vehicle safety that includes defining criteria for safety of autonomous vehicles in a test space, and dividing the test space into an intended test space (23) and a un-intended test space (24) for the criteria for safety of autonomous vehicles. The intended test space (23) includes characterizations for the autonomous vehicle that can be quantified, and the un-intended test space (24) includes characterizations that are not quantifiable. The method further includes measuring the safety of the autonomous vehicles in the intended test space (23). The applying the un-intended test space (24) is applied to the intended test space (23) as feedback into the intended test space (23); and evaluating the intended test space (23) including the feedback from the un-intended test space (24) using a combined simulation of peripheral vehicles and autonomous vehicles to provide the evaluation of autonomous vehicle safety.

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