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**(54) Title (EN):** VIRTUAL RADAR APPARATUS AND METHOD

**(54) Title (FR):** APPAREIL ET PROCÉDÉ DE RADAR VIRTUEL

**(57) Abstract:**

**(EN):** A virtual radar system. In one embodiment, the system includes a vehicle-based mobile device subsystem, said vehicle-based mobile device subsystem located in a vehicle; a control station subsystem, and a cloud-based data subsystem comprising a cloud-based database for holding data regarding a plurality of locations of a plurality of vehicles and a plurality of cloud transaction processors in communication with the cloud-based database. In another embodiment, said cloud transaction processors calculate the positions of the plurality of vehicles, their trajectories, and the probability of a collision between vehicles and issue a warning to the vehicles in response thereto.

**(FR):** La présente invention concerne un radar virtuel. Dans un mode de réalisation, le système comprend un sous-système de dispositif mobile basé sur un véhicule, ledit sous-système de dispositif mobile basé sur un véhicule étant situé dans un véhicule ; un sous-système de station de commande, et un sous-système de données en nuage comprenant une base de données en nuage destinée à contenir des données concernant une pluralité d'emplacements d'une pluralité de véhicules et d'une pluralité de processeurs de transaction en nuage en communication avec la base de données en nuage. Dans un autre mode de réalisation, lesdits processeurs de transaction en nuage calculent les positions de la pluralité de véhicules, leurs trajectoires et la probabilité d'une collision entre des véhicules et émettent un avertissement aux véhicules en réponse à ces dernières.

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European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

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### **Declarations:**

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))