

Title (en)
ENVIRONMENTAL DETECTION SYSTEM COMPRISING TWO TRANSMITTERS AND RECEIVERS PLACED AT A DISTANCE FROM ONE ANOTHER

Title (de)
UMGEBUNGSERFASSUNGSSYSTEM MIT ZWEI BEABSTANDETEN SENDERN UND EMPFÄNGERN

Title (fr)
SYSTEME DE DETECTION D'ENVIRONNEMENT COMPORTANT DEUX ÉMETTEURS ET RÉCEPTEURS PLACÉS À DISTANCE LES UNS DES AUTRES

Publication
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Application
EP 04762686 A 20040819

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Abstract (en)
[origin: WO2005029124A1] The invention relates to an environmental detection system comprising two transmitters of electromagnetic waves and two correspondingly configured receivers for receiving reflections of the emitted waves, a first transmitter and first receiver being oriented towards a first target zone and a second transmitter and second receiver being oriented towards a second target zone. To detect a third target zone, optical elements are provided in front of at least the first transmitter, said elements at least intermittently guiding at least some of the waves emitted from said transmitter into the third target zone and optical elements are provided in front of at least the second receiver, said elements at least intermittently guiding reflections of the waves emitted by the first transmitter into the third target zone onto the second receiver. Preferably, the optical elements are permanent and the transmitters are alternately active, in such a way that one respective receiver detects the third target zone without interference. This permits the entire front area in the direction of travel to be detected for a motor vehicle by means of a transmitter-receiver pair located in said direction of travel on the left-hand and right-hand side of the vehicle.

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IPC 8 full level
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See references of WO 2005029124A1

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