

Title (en)

SENSOR ASSEMBLY AND METHOD FOR DETECTING THE SURROUNDINGS OF A VEHICLE

Title (de)

SENSORANORDNUNG UND VERFAHREN ZUR UMFELDERFASSUNG EINES FAHRZEUGS

Title (fr)

SYSTÈME DE DÉTECTION ET PROCÉDÉ DE DÉTECTION DE L'ENVIRONNEMENT D'UN VÉHICULE

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Application

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Abstract (en)

[origin: WO2014146828A2] The invention relates to a sensor assembly (1) which comprises a first acoustic transducer assembly (10) having at least one surface formed as a diaphragm (12), the diaphragm (12) being suitable to emit sound waves. An acoustic converter assembly (10) of this type is also designated a flexible resonator and can generate sound waves having a comparatively high acoustic pressure. The sensor assembly (1) according to the invention has a second acoustic transducer assembly (20), comprising a plurality of sensor elements (22a - 22i) which are arranged in an array. Provision is made for the second acoustic transducer assembly (20) to be arranged on a surface of the first acoustic transducer assembly (10) that is formed as a diaphragm (12). According to the invention, the second acoustic transducer assembly (20) comprises sensor elements (22a - 22i) which are formed as electret converter elements. A sensor assembly (1) of this type can be formed in particular as an ultrasound sensor assembly for detecting the surroundings of a vehicle.

IPC 8 full level

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