

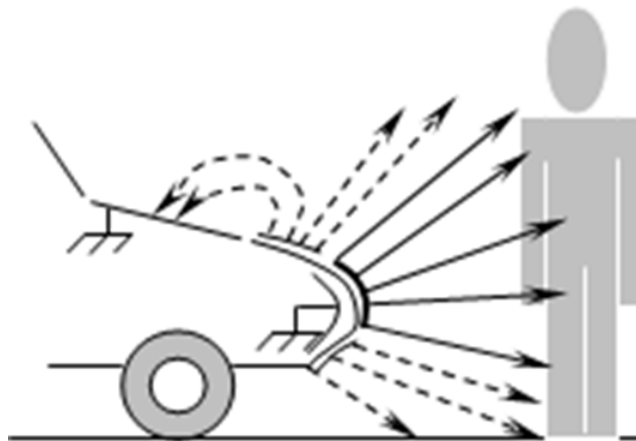


Vehicle system to detect pedestrians on a short range

Technology

This system based on a capacitive sensor integrated in the front face of a vehicle allows to detect a pedestrian (by modification of the electric field generated by the sensor on a short range) and offer the capability to trigger a protection device before the impact (e.g airbag...).

The capacitive sensor is coupled with a signal treatment software which allows to accurately discriminate the presence and the distance of a pedestrian.



Benefits

- Short range detection of a pedestrian before impact and low sensitivity to the environment constraint (rain, saline smog...)
- High selectivity of the pedestrian detection via a powerful discrimination of the type of obstacle
- Optimized analysis of the approach parameter (vehicle speed, distance)
- Easiness to integrate the sensor system (metallic screen)

Applications

- Pedestrian detection:
 - Short range (<1m)
 - Low speed (10-70 kph)
 - Vehicle in urban or industrial environment



Keywords

- Pedestrian detection
- Pedestrian impact
- Capacitive sensor



Intellectual Property

Patent application in February 2015.
International extension expected.



Development Status

System of analysis and pedestrian detection validated in laboratory.
Optimization required to develop an easily integrable sensor in a front face of a vehicle for testing in real environment.



Partnership

Licensing and/or partnership for industrial integration

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