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Wang et al.

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(54) **VEHICLE DOOR HANDLE AND SENSOR DEVICE THEREOF**

(56) **References Cited**

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(57) **ABSTRACT**

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A vehicle door handle includes a case, a first detector and a second detector. The first detector includes a core and a coil that is wound around the core. The second detector is disposed side by side with the first detector, and includes a sensor electrode that has a wavy geometry and that has an axis substantially parallel to the axis of the core. The sensor electrode includes a first wavy segment and a second wavy segment. The first wavy segment corresponds in position to the coil and has a first linear density, and the second wavy segment has a second linear density that is greater than the first linear density.

(52) **U.S. Cl.**
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(58) **Field of Classification Search**
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See application file for complete search history.

12 Claims, 6 Drawing Sheets

