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(54) **SEAT CONFIGURED FOR OCCUPANCY STATE DETECTION**

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(58) **Field of Classification Search**
None
See application file for complete search history.

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(57) **ABSTRACT**

A seat (**10**) configured for detecting an occupancy state comprises an at least partially electrically conductive structural frame (**14**) comprising at least two fixation sites (**22**, **24**) and an at least partially electrically conductive cushion-supporting spring (**20**) taut between the fixation sites. The cushion-supporting spring is electrically insulated from the structural frame. The seat comprises a cushion (**16**) supported by the cushion-supporting spring. The cushion-supporting spring and the structural frame are disposed in such a way that they are brought in electrical contact with each other when a force (**34**) is applied on the cushion that exceeds a predefined threshold force.

13 Claims, 2 Drawing Sheets