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(54) **VIBRATION DETECTOR**

(57) A vibration detector has a structure including a heat generation member which generates heat when subjected to at least one of deformation and friction by external vibration and a detection element for detecting a heat flux from the heat generation member, and configured to detect data regarding vibration based on a detection result of the detection element. The detection element has a structure in which an insulation base material 100 made of thermoplastic resin is formed with first and second via holes 101 and 102 penetrating there-

through in a thickness direction, first and second inter-layer connection members formed of different metals are embedded in the first and second via holes, and the first and second inter-layer connection members are connected in series alternately, the metals forming the first and second inter-layer connection members being sintered alloys sintered in a state in which metal atoms maintain a crystal structure thereof.

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FIG. 3

