

ABSTRACT

THERMOELECTRIC SENSOR

Thermoelectric sensor (12) formed by a membrane (14) including a plurality of thermoelectric elements (20) formed of a plurality of thermoelectric couples and forming a plurality of elementary cells. Each elementary cell is thermally insulated from adjacent elementary cells by metal wires (22, 23), preferably gold wires, arranged on the front face (25) of the membrane (14), more particularly, on an upper passivation layer (30). The metal wires (22 and 23) are thermally connected to a substrate (16) supporting said membrane. The two wires separating two adjacent thermoelectric elements (20) are separated from each other by an intermediate low thermal conduction region (28).

Figure 4