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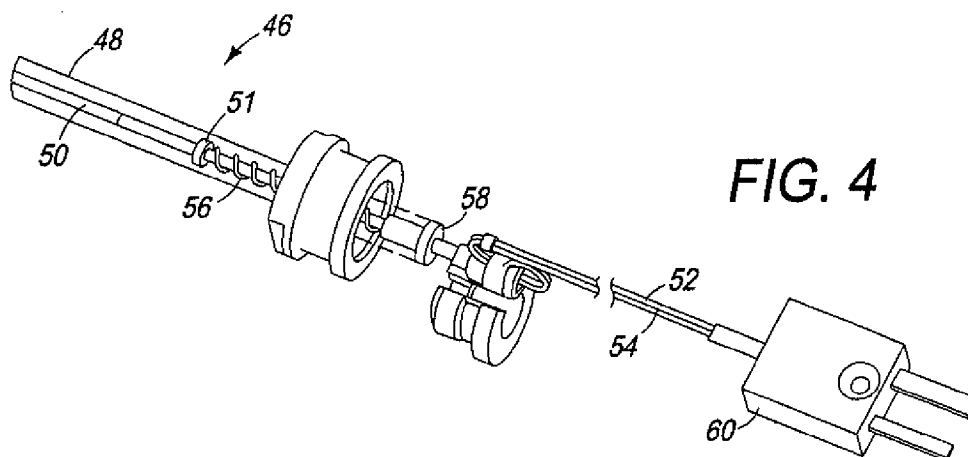
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(57) Abstract: A thermocouple having a support tube configured to receive a pair of wires of dissimilar metals. The pair of wires of the thermocouple connected at a junction adjacent to one end of the support tube. The thermocouple further including a cap attached to the opposing end of the support tube, wherein the cap receives the free ends of the pair of wires. The cap allowing the pair of wires to translate freely therethrough to accommodate the difference in thermal expansion and contraction of the pair of wires relative to the thermal expansion and contraction of the support tube.

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