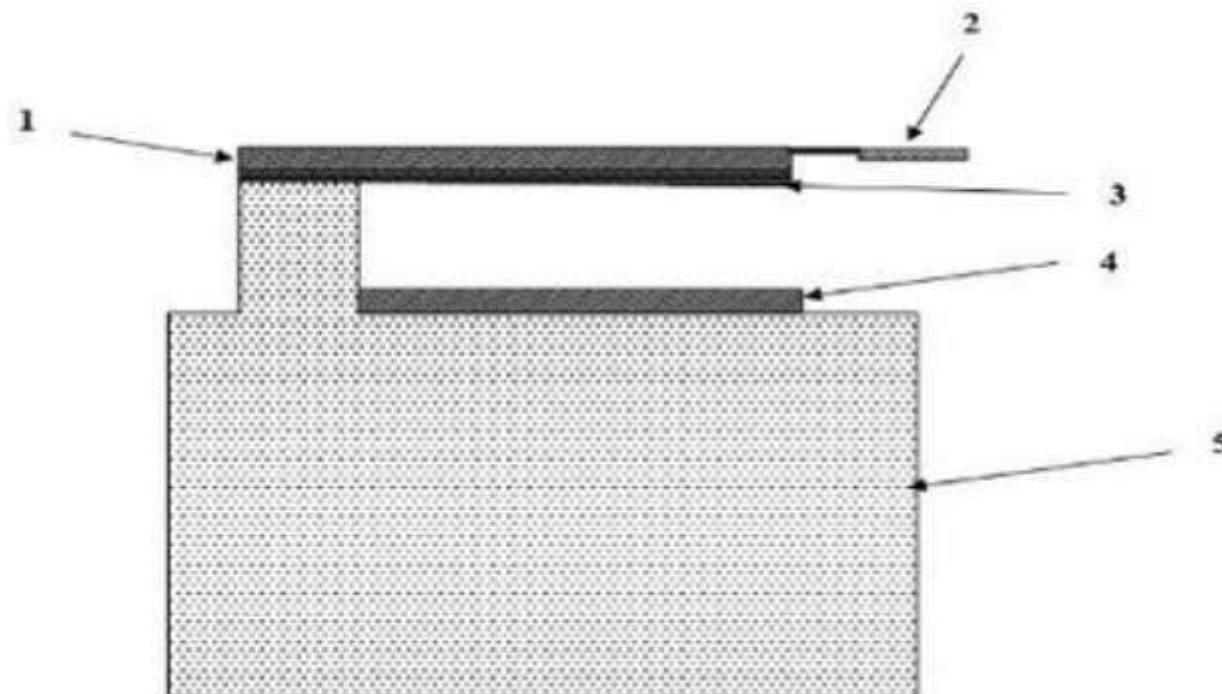


(54) Title of the invention : VARIABLE CAPACITANCE APPARATUS

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(57) Abstract :

The present invention relates to a variable capacitance apparatus comprising, a substrate body associated with the apparatus. The substrate body 5 acts as a platform for the fabrication on the apparatus with a extruded section at its one side made up of semiconductor material like silicon (Si) and Germanium (Ge), a first electrode 4 affixed on the substrate body 5 to act as a first terminal of the apparatus, a second electrode 1 mounted on the extruded portion of the substrate body 5 which receives electrical current in order to expand because of thermal expansion and resulting in the change of capacitance value because of changing in distance between the first and the second electrode 1, 4, a reflecting plate 2 attached to the second connecting rod 1 that moves along the motion of the second connecting rod 1 and having reflective plate 2 for acting as optical switch.



No. of Pages : 11 No. of Claims : 7