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(54) **Title**: FLOATING BODY CELL STRUCTURES, DEVICES INCLUDING SAME, AND METHODS FOR FORMING SAME

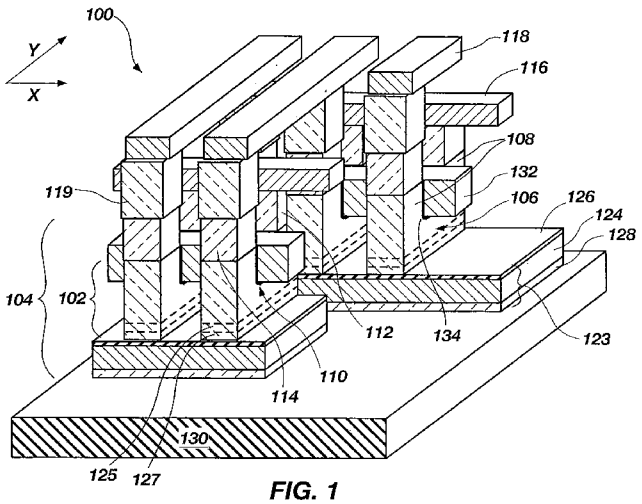


FIG. 1

(57) **Abstract**: Floating body cell structures including an array of floating body cells disposed on a back gate and source regions and drain regions of the floating body cells spaced apart from the back gate. The floating body cells may each include a volume of semiconductive material having a channel region extending between pillars, which may be separated by a void, such as a U-shaped trench. The floating body cells of the array may be electrically coupled to another gate, which may be disposed on side-walls of the volume of semiconductive material or within the void therein. Methods of forming the floating body cell devices are also disclosed.

WO 2011/109149 A2