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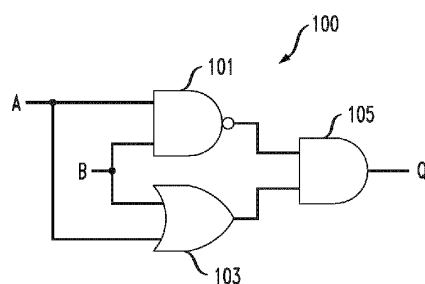
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(54) Title: PHASE-CHANGE MATERIAL-BASED XOR LOGIC GATES

FIG. 1



INPUT		OUTPUT (Q)
A	B	A XOR B
0	0	0
0	1	1
1	0	1
1	1	0

(57) Abstract: An apparatus comprises a phase-change material, a first electrode at a first end of the phase-change material, a second electrode at a second end of the phase-change material, and a heating element coupled to a least a given portion of the phase-change material between the first end and the second end. The apparatus also comprises a first input terminal coupled to the heating element, a second input terminal coupled to the heating element, and an output terminal coupled to the second electrode.

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