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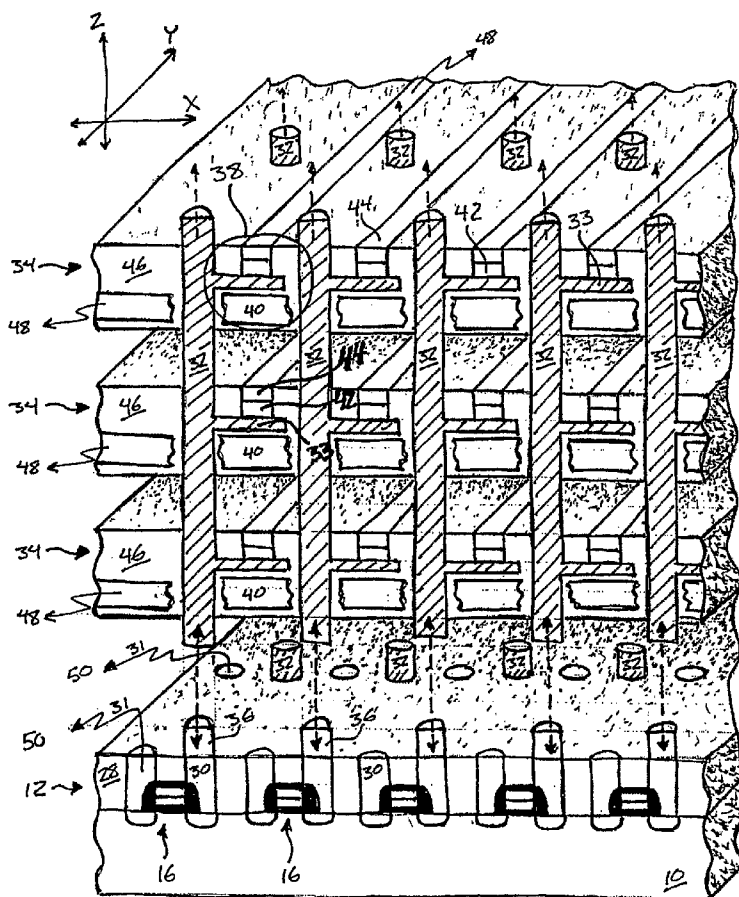
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(54) Title: STACKED 1T-*n*MEMORY CELL STRUCTURE



(57) Abstract: This invention relates to memory technology and new variations on memory array architecture to incorporate certain advantages from both cross-point and 1T-1Cell architectures. The fast read-time and higher signal-to-noise of the 1T-1Cell architecture and the higher packing density of the cross-point architecture are both exploited by combining certain characteristics of these layouts. A single access transistor 16 is used to read multiple memory cells, which can be stacked vertically above one another in a plurality of memory array layers arranged in a "Z" axis direction.



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