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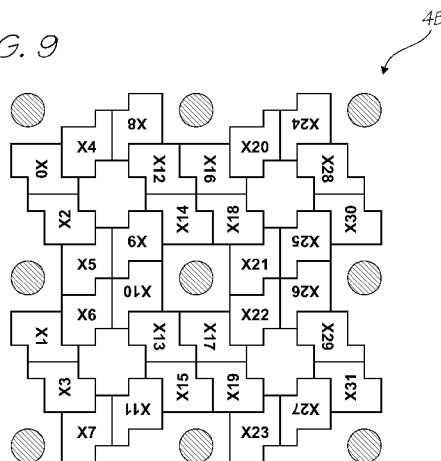
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(54) Title: POSITION-CODING PATTERN HAVING TAG COORDINATES ENCODED BY BIT-SHIFTED SUBSEQUENCES OF CYCLIC POSITION CODE

FIG. 9



(57) Abstract: A substrate having a position-coding pattern disposed on a surface thereof. The position-coding pattern comprises a plurality of tags. Each tag encodes a w-bit subsequence of a cyclic code sequence. The w-bit subsequence maps to a corresponding coordinate codeword for the tag. Adjacent tags contain a w-bit subsequence shifted by one bit relative to each other in the cyclic code sequence.