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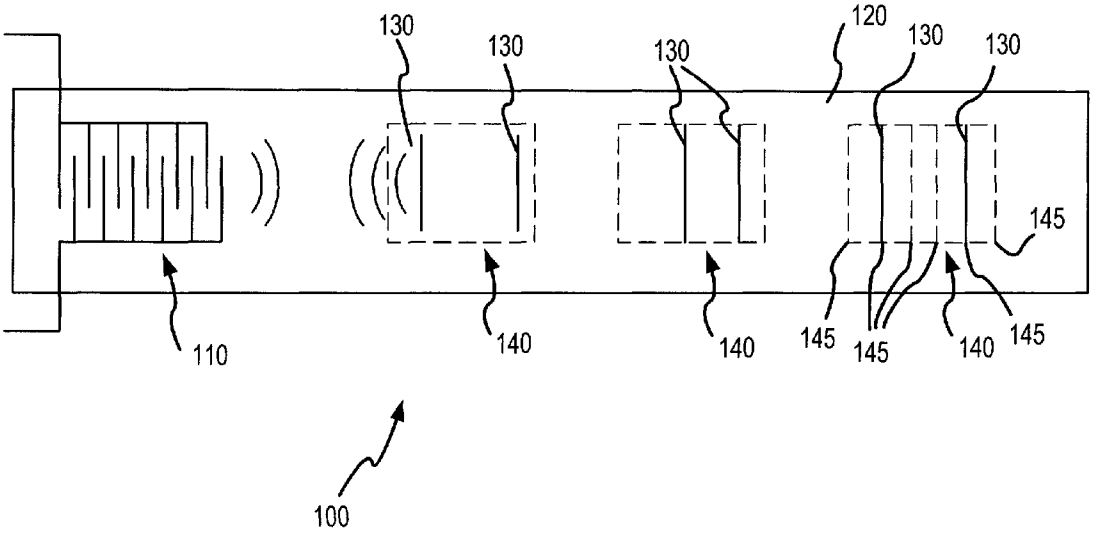
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(54) Title: SURFACE ACOUSTIC WAVE IDENTIFICATION TAG HAVING AN INTERDIGITAL TRANSDUCER ADAPTED FOR CODE DISCRIMINATION AND METHODS OF OPERATION AND MANUFACTURE THEREOF



(57) Abstract: A surface acoustic wave (SAW) identification tag having a coded transducer and methods of operating and manufacturing the tag. In one embodiment the tag includes: (1) a piezoelectric substrate having a number of reflectors distributed among a group of slots arranged by both pulse position and phase position on the substrate for encoding a number by pulse and phase position; and (2) a SAW transducer located on the substrate for generating a coded interrogation pulse.

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