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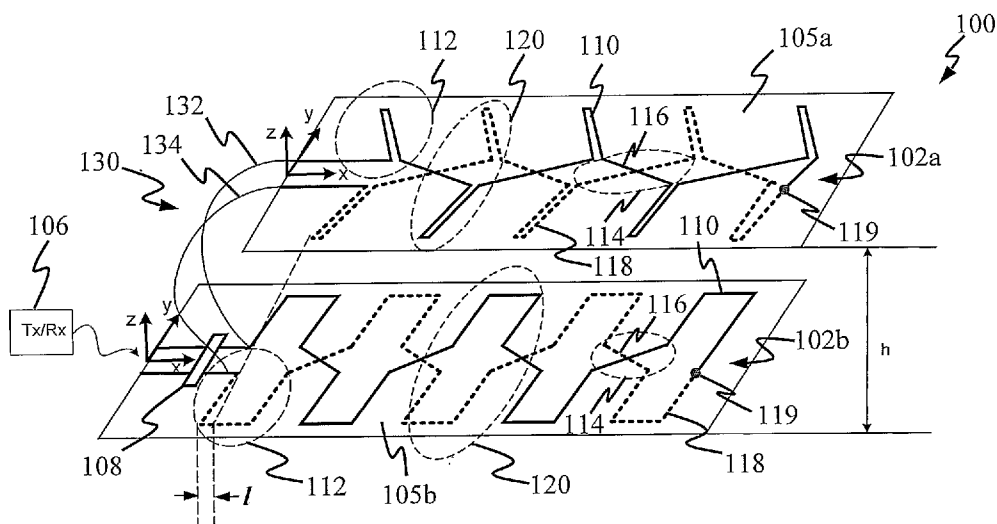
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(54) Title: MULTI-LOOP ANTENNA FOR RADIO FREQUENCY IDENTIFICATION APPLICATIONS



(57) Abstract: An antenna for radio frequency identification is disclosed. The antenna comprises a first radiating element having at least one loop element and a second radiating element spatially displaced from the first radiating element and having at least two interconnected loop elements. The antenna further comprises a coupler for electrically coupling the first and second radiating elements. Specifically, when a first current flows in the first radiating element for generating a first magnetic field and a second current flows in the second radiating element for generating a second magnetic field, one of the first and second magnetic fields superimposes the other of the first and second magnetic fields for generating an interrogation region in the near field of the first and second radiating elements.

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