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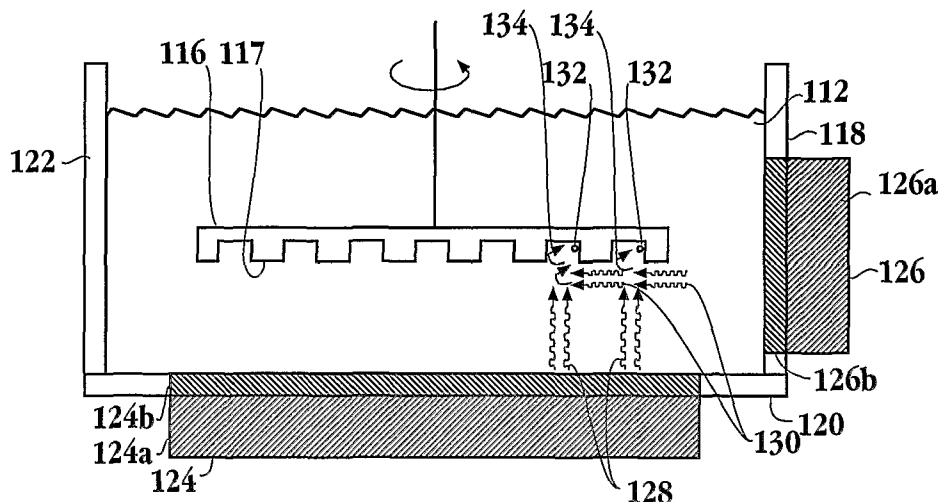
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(54) Title: METHOD AND APPARATUS FOR MEGASONIC CLEANING OF PATTERNED SUBSTRATES



(57) Abstract: A method for cleaning a semiconductor substrate is provided. The method initiates with generating acoustic energy oriented in a substantially perpendicular direction to a surface of a semiconductor substrate. Then, acoustic energy oriented in a substantially parallel direction to the surface of the semiconductor substrate is generated. Each orientation of the acoustic energy may be simultaneously generated or alternately generated. A system and an apparatus for cleaning a semiconductor substrate are also provided.

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