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Pingree

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(54) **COLLAPSIBLE LIFT PROPELLERS**

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CPC ***B64C 11/28*** (2013.01); ***B64C 39/024*** (2013.01); *B64C 2201/108* (2013.01)

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See application file for complete search history.

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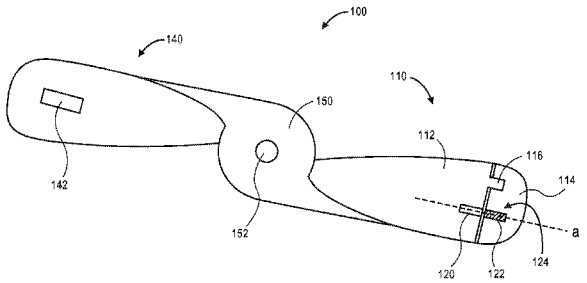
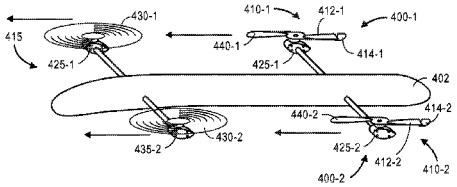
(57) **ABSTRACT**

Aerial vehicles may be equipped with collapsible lift propellers and thrust propellers. The collapsible lift propellers may include retractable tips that may pivot or rotate from a first orientation substantially co-aligned with a main body of the collapsible lift propellers during ordinary operations and a second orientation substantially transverse to the main body of the collapsible lift propellers when rotation of the collapsible lift propellers is stopped. The collapsible lift propellers may further include biasing elements, e.g., springs for biasing the retractable tips into the second orientation, and mechanical stops for inhibiting the pivoting or rotation of the retractable tips beyond the first orientation.

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