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(54) **FLEXIBLE VEST INCLUDING A POSITIONABLE OSCILLATING MOTOR ARRAY**

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(57) **ABSTRACT**

In some embodiments, a system may include an inner wearable harness including a flexible vest. The system may include at least one engine which when activated apply an oscillation force. The at least one engine is positioned after the vest has been positioned on the subject on different areas of the inner wearable harness to allow selective placement of engines on and/or adjacent areas of the subject's chest such that the oscillation force is applied to at least one treatment area. The oscillation force may mobilize, during use, at least some secretions in an airway within the subject substantially adjacent the treatment area. The system may include a flexible and elastic outer harness worn, during use, on a torso of a subject which when activated provides a compressive force to adjust the oscillation force applied by at least some of the at least one engine to the treatment area.

15 Claims, 21 Drawing Sheets

