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**Dumont et al.**

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(54) **SYSTEMS AND METHODS FOR DETERMINING WIND VELOCITY**

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See application file for complete search history.

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(57) **ABSTRACT**

In one embodiment, a system includes a vehicle, one or more probes coupled to the vehicle, and a controller. The vehicle is operable to traverse a distance. The one or more probes are operable to measure wind pressure and generate one or more wind pressure measurements. The controller is operable to receive the one or more wind pressure measurements from the one or more probes, determine a wind angle relative to the vehicle using the one or more wind pressure measurements, and determine a wind speed relative to the vehicle using the one or more wind pressure measurements and the wind angle.

**20 Claims, 18 Drawing Sheets**

