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**Hampton et al.**

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(54) **ACOUSTIC SEAL SYSTEM**

(56) **References Cited**

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(57) **ABSTRACT**

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An acoustic seal system (100). The system (100) includes a flexible sealing element (110) having a ridge (134) for engaging a cover (118) with a sealing interference fit, a plate (112) in which the flexible sealing element (110) is secured to the plate (112) and a mesh (114) for controlling particle contamination. The mesh (114) is secured to the plate (112), and the plate (112) and at least a portion of the flexible sealing element (110) are secured to a portion of an inner housing (116). The portion of the flexible sealing element (110) engages the portion of the inner housing (116) with a sealing interference fit. When the cover (118) engages the inner housing (116), the flexible sealing element (110) provides an acoustic seal between the cover (118) and the inner housing (116).

(65) **Prior Publication Data**

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See application file for complete search history.

**14 Claims, 3 Drawing Sheets**

