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Spurrell

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(54) **AIR SAMPLER FOR PATHOGENS AND PSYCHROMETRICS**

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(58) **Field of Search** **435/30, 31, 307.1, 435/308.1, 287.5, 288.3; 73/29.02, 335.06**

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(57) **ABSTRACT**

An air sampler device and method for collecting airborne pathogens and psychrometric data for room or remote air samples wherein the sample volume is electronically controlled. Particulates in the air are caused to impact the surface of the growth/inhibitor media contained in the pathogen dish thereby depositing pathogenic microorganisms in the media. The growth/inhibitor media may be a solid, liquid, gel, or mixture thereof. After the pathogen dish is incubated, colony forming units are counted for determination of air quality parameters. A chip-based sensor measures psychrometric properties of the air sample.

16 Claims, 7 Drawing Sheets

