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(54) **METHOD FOR IMPROVING LUNG DELIVERY OF PHARMACEUTICAL AEROSOLS**

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(51) **Int. Cl.⁷** **A61B 5/05**

(52) **U.S. Cl.** **600/420; 128/922**

(58) **Field of Search** 600/420, 419, 600/410, 398, 407; 128/922

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(57) **ABSTRACT**

Disclosure is made of a method employing real-time imaging techniques such as Magnetic Resonance Imaging in order to investigate the effect of air way structures or administration and respiratory drugs when administered by oral inhalation. The information obtained from the practice of this method yields the criteria that can be used, among other things, to design more efficient aerosol drug delivery systems which optimize the amount of medicine delivered to the lung.

14 Claims, 11 Drawing Sheets

