(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
4 January 2001 (04.01.2001)

PCT

(10) International Publication Number
WO 01/00263 A3

(51) International Patent Classification[7]: A61M 15/00

(21) International Application Number: PCT/US00/18084

(22) International Filing Date: 29 June 2000 (29.06.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/141,793 30 June 1999 (30.06.1999) US
60/198,060 18 April 2000 (18.04.2000) US

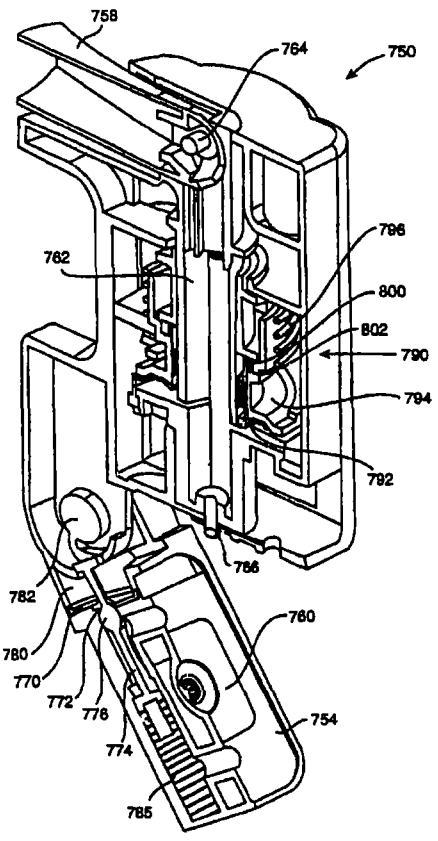
(71) Applicant: INHALE THERAPEUTICS SYSTEMS, INC. [US/US]; 150 Industrial Road, San Carlos, CA 94070 (US).

(72) Inventors: SCHULER, Carlos; 10344 Denison Avenue, Cupertino, CA 95014 (US). PABOOJIAN, Steve; 2133 Avy Avenue, Menlo Park, CA 94025 (US). TUTTLE, Derrick, J.; 400 E. Poplar Avenue #3, San Mateo, CA 94401 (US). SMITH, Adrian, E.; 2803 Alhambra Drive, Belmont, CA 94002 (US). RASMUSSEN, Dennis, R.; 244 Fairview Lane, Santa Clara, CA 95051 (US). BAKSHI, Aneesh; 1080 Ralston Avenue #6, Belmont, CA 94002 (US). CLARK, Andrew; 436 Valdez Avenue, Half Moon Bay, CA 94019 (US). WARD, Brian, R.,S.; 291 Quinnhill, Los Altos, CA 94024 (US). ALSTON, William, W., Jr.; 2336 Westmoreland Drive, San Jose, CA 95124 (US). NASON, Kevin, S.; 600 Rainbow Drive, Apt. 222, Mountain View, CA 94041 (US).

(74) Agents: GIBBY, Darin, J. et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111 (US).

[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR AEROSOLIZING PHARMACEUTICAL FORMULATIONS



(57) Abstract: Systems and methods are provided for aerosolizing a pharmaceutical formulation. According to one method, respiratory gases are prevented from flowing to the lungs when attempting to inhale. Then, respiratory gases are abruptly permitted to flow to the lungs. The flow of respiratory gases may then be used to extract a pharmaceutical formulation from a receptacle and to place the pharmaceutical formulation within the flow of respiratory gases to form an aerosol.

G00001

WO 01/00263 A3

162162