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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number
WO 2005/096932 A2

(51) International Patent Classification[7]: A61B 5/08

(21) International Application Number:
PCT/US2005/009420

(22) International Filing Date: 21 March 2005 (21.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/810,876 26 March 2004 (26.03.2004) US

(71) Applicant and
(72) Inventor: **BRYANT, Terry, Keith** [US/US]; 1281 East Blue Heron Boulevard, Singer Island, FL 33404 (US).

(74) Agent: **POLLEY, Daniel, S.**; Daniel S. Polley, P.A., 1215 East Broward Boulevard, Fort Lauderdale, FL 33301 (US).

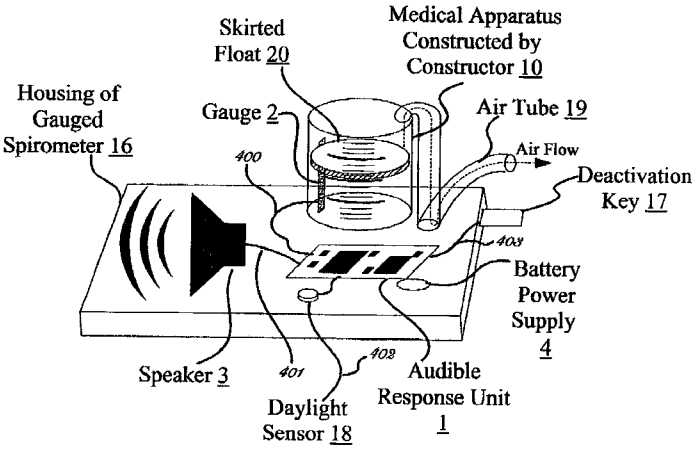
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPROVED INCENTIVE SPIROMETER DEVICE EMPLOYING VERBAL SIMULATED HUMANLIKE VOICES TO ENCOURAGE USAGE



Present Invention Within Housing of Gauged Spirometer 16

(57) **Abstract:** An apparatus used in the medical industry, in order to increase transpulmonary pressure and respiratory volumes, to improve inspiratory muscle performance and re-establish the normal pulmonary hyperinflation, through the employment of electronic technology, providing audible, simulated, verbal, human sounding words, that assist, guide and prompt, increasing patient usage. In the past, lack of usage of this simple plastic, antiquated, disposable unit, by the patient, has contributed to severe problems, such as pneumonia. Without prompting, the patient finds it hard to inhale into a tube repetitively, to improve their lungs. Previous applications of prior equipment has been poor, thus adding intelligence in the form of electronic technology, which prompts without assistance, is a tremendous advantage in helping not only the sighted, but also the blind as well, since normally only written information accompanies the incentive spirometer, thus, changing the use of this medical device as we know it today.

WO 2005/096932 A2