US00D717192S

(12) **United States Design Patent**
Tanner et al.

(10) **Patent No.: US D717,192 S**
(45) **Date of Patent: ** Nov. 11, 2014**

(54) **MINIATURE PORTABLE GAS CHROMATOGRAPH**

(71) Applicants: **Marks Tanner**, Gainesville, FL (US); **Douglas Crumb**, Gainesville, FL (US); **Donn Dennis**, Gainesville, FL (US); **Tom Bigger**, Gainesville, FL (US); **Susan L. Baumgartner**, Gainesville, FL (US); **Scott Howard Wakefield**, N. Chelmsford, MA (US); **William David Chura**, N. Chelmsford, MA (US)

(72) Inventors: **Marks Tanner**, Gainesville, FL (US); **Douglas Crumb**, Gainesville, FL (US); **Donn Dennis**, Gainesville, FL (US); **Tom Bigger**, Gainesville, FL (US); **Susan L. Baumgartner**, Gainesville, FL (US); **Scott Howard Wakefield**, N. Chelmsford, MA (US); **William David Chura**, N. Chelmsford, MA (US)

(73) Assignees: **University of Florida Research Foundation, Incorporated**, Gainesville, FL (US); **Xhale, Inc.**, Gainesville, FL (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/456,359**

(22) Filed: **May 30, 2013**

(51) **LOC (10) Cl.** **10-04**

(52) **U.S. Cl.**
USPC **D10/81**

(58) **Field of Classification Search**
CPC A61B 5/083; A61B 5/087; A61B 5/0833; A61B 5/091; A61B 5/222; A61B 5/0002; A61B 5/02438; A61B 5/08; G01N 33/497; G01N 33/4972; G01N 33/483; G01N 33/98; G10L 17/00
USPC D10/78, 81; D24/216, 232–234; 73/1.01, 1.02–1.08, 1.16, 19.01–19.02, 73/23.2–23.27, 23.3, 23.35–24.01, 52, 73/53.01, 61.52–61.61, 864.21, 431, 73/864.73, 31.03, 31.05, 866.5, 864.84, 73/864.23, 61.55, 863.01, 866, 864.62; 204/253, 400, 403.01, 403.02, 403.04, 204/403.05, 403.1, 403.11, 403.14; 205/775, 777.5, 778, 792; 210/656–660, 198.2, 635, 101, 103; 250/252.1, 251, 25, 281–300, 305, 250/336.1, 338.1, 338.5, 339.07, 339.13, 250/343, 349, 239, 910; 356/446, 246, 356/301–337, 451, 72, 73; 422/50–53, 422/62–82, 83–98, 239.2, 400, 401, 404; 435/4, 283.1–284.1, 286.5, 287.1, 435/287.2, 806, 13, 14, 287.4, 287.7, 435/287.94, 6.18; 436/43–54, 68, 900, 514, 436/530, 95; 600/300, 301, 309, 322, 345, 600/347, 365, 393, 578, 583, 584, 532, 600/543; 604/207, 503, 65, 66, 67, 182; 702/19, 40; 221/65, 135; 235/451, 235/422.01; 95/87; 96/101, 106; 366/286, 366/207
See application file for complete search history.

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Primary Examiner — Antoine D Davis
(74) *Attorney, Agent, or Firm* — Thomas | Horstemeyer, LLP

(57) **CLAIM**

The ornamental design for a miniature portable gas chromatograph, as shown and described.

DESCRIPTION

FIG. **1** is a front and left side view of an embodiment of the miniature portable gas chromatograph showing the mouthpiece "straw", a "start" button and a front-facing camera for definitive identification of the subject providing an exhaled breath sample; the right side view is a mirror image of the left side;

FIG. **2** is a rear view of an embodiment of the miniature portable gas chromatograph showing the power connection cord and a vent;

FIG. **3** is a left side view of an embodiment of the miniature portable gas chromatograph showing the mouthpiece "straw"; the right side view is a mirror image of the left side;

FIG. **4** is a front and left side view of an embodiment of the miniature portable gas chromatograph showing the mouthpiece "straw", a "start" button and a front-facing camera for definitive identification of the subject providing an exhaled breath sample; the right side view is a mirror image of the left side; and,

FIG. **5** is a front and left side view of an embodiment of the miniature portable gas chromatograph showing the device with a mouthpiece "straw" receiving port but without the mouthpiece "straw" inserted in the mouthpiece receiving port and showing a speaker on the front face of the device and power connection cord on the rear, a "start" button and a front-facing camera for definitive identification of the subject providing an exhaled breath sample.

The bottom of the miniature portable gas chromatograph is flat and unornamented.

The article is a miniature portable gas chromatograph which can sit on a flat surface or be handheld and is intended for use by subjects who exhale into the device's mouthpiece "straw" or into gas sampling bags or gas-tight syringes for introduction into the device's mouthpiece "straw" for measurement of compounds present in the exhaled breath.

1 Claim, 5 Drawing Sheets

Figure 1

Figure 2

Figure 3

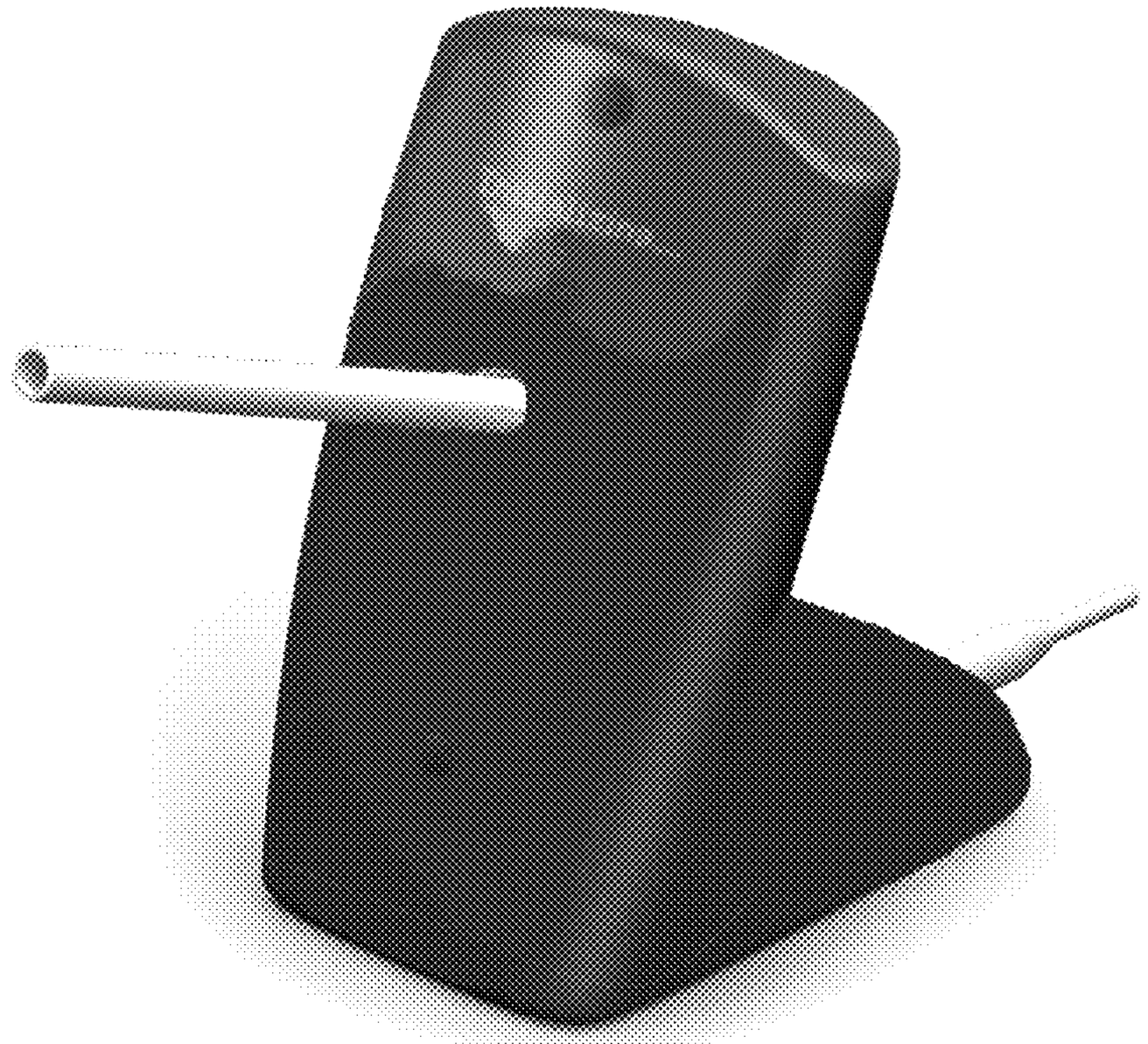

Figure 4

Figure 5