IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF VIRGINIA RICHMOND DIVISION

FUMA INTERNATIONAL LLC, an Ohio limited liability company,

Plaintiff,

v.

ALTRIA GROUP, INC.; NU MARK LLC; ALTRIA GROUP DISTRIBUTION COMPANY; and ALTRIA CLIENT SERVICES LLC,

Defendants.

Civil Action No. 3:23-cv-348

DEMAND FOR JURY TRIAL

COMPLAINT FOR PATENT INFRINGEMENT

For its Complaint against Defendants Altria Group, Inc. ("AGI"), Nu Mark LLC ("Nu Mark"), Altria Group Distribution Company ("AGDC"), and Altria Client Services LLC ("ACS"), (collectively, "Defendants"), Plaintiff Fuma International LLC ("Fuma") alleges as follows:

JURISDICTION AND VENUE

- 1. This is a civil action for patent infringement arising under Title 35 of the United States Code, and in particular 35 U.S.C. §§ 271, 282, 283, 284, and 285.
- 2. This Court has subject matter jurisdiction over this patent infringement action under 28 U.S.C. §§ 1331 and 1338(a).
- 3. This Court has personal jurisdiction over Defendants because they are incorporated in and reside in Richmond, Virginia in this judicial district, solicit and conduct

business in Virginia, including the provision of goods, derive revenue from goods sold in Virginia and within this judicial district, and have committed acts of infringement in this judicial district, including, but not limited to, offering to sell and selling the accused products in this judicial district.

4. Venue lies in this judicial district pursuant to 28 U.S.C. §§ 1391(b) and (c), and 1400(b).

FACTUAL BACKGROUND

THE PLAINTIFF

5. Plaintiff Fuma is a company organized and existing under the laws of the state of Ohio, with its principal place of business at 879 S. Progress Drive, Medina, Ohio 44256. Fuma is in the business of developing and selling innovative products, including electronic cigarettes.



- 6. Fuma was founded in 2009 by Greg Conley, his wife, Rebecca Conley, and their friend Daniel Hillenbrandt to develop and commercialize certain of the concepts described in U.S. Patent Nos. 9,532,604 ("the '604 Patent" or "the patent-in-suit," Ex. A)
- 7. Prior to conceiving the inventions described in the Patents-in-suit, Mr. Conley worked as a technician and engineer for over 15 years and was employed by Rockwell International and ABB (Asea Brown Boveri), Inc., among others, in technical areas such as industrial control systems, robotics, process control, software development, computer design, and wireless technologies, among others.
- 8. Prior to forming Fuma, Mr. Conley formed Tri-C Technologies LLC under which he provided engineering and technical services as a consultant.
- 9. In April of 2009, and still operating under Tri-C Technologies LLC entity, Mr. Conley, Mrs. Conley, and Mr. Hillenbrandt became a distributor in Ohio of e-cigarette devices sold by a company called Smoke Anywhere USA, Inc., a.k.a. "Smoke 51." Those e-cigarette devices are shown in the Wikipedia page that is listed on the first page of a continuation of the patent-in-suit, U.S. Patent No. 10,334,881 ("the '881 Patent") under the heading "OTHER PUBLICATIONS." Tri-C Technologies LLC terminated its relationship with Smoke Anywhere USA, Inc. and ceased distribution of the products later that same year.
- 10. Recognizing that the e-cigarette devices Tri-C Technologies LLC had been distributing under the agreement with Smoke Anywhere USA, Inc. were deficient in numerous ways, Mr. Conley thought of new designs for an e-cigarette device. Mr. Conley enlisted Dan Hillenbrandt, whose background is in precision manufacturing, to help in developing the new e-cigarette designs. Together with Rebecca Conley, they formed Fuma in July of 2009 to further develop and commercialize the concepts described in the patent-in-suit.

- 11. Mr. Conley and Mr. Hillenbrandt filed Provisional Patent Applications on July 27, 2009 (Provisional Application No. 61/271,819) and July 31, 2009 (Provisional Application No. 61/273,097) in the United States Patent Office that describe some of their concepts for a new ecigarette design.
- 12. Mr. Conley and Mr. Hillenbrandt followed up their provisional patent applications with a Regular Patent Application that they filed in the United States Patent Office on July 27, 2010 (Application No. 12/843,917) and that claimed priority to their Provisional Patent Applications.
- 13. According to U.S. Patent Office Procedures, the contents of Fuma's provisional applications filed in 2009 and the Regular Patent Application Fuma filed in on July 27, 2010 remained restricted from public access and confidential until the first publication in the Patent family by the U.S. Patent Office on Aug. 29, 2013. (Publication No. US 2013/0220315 A1).
- 14. The patent-in-suit resulted and issued from the Provisional and Regular patent applications that Mr. Conley and Mr. Hillenbrandt filed in July 2009 and July 2010, as shown under the heading "Related U.S. Application Data" on the first page of the '604 Patent.
- 15. During 2009, Mr. Conley and Mr. Hillenbrandt worked to develop their concepts for a new e-cigarette device. Mr. Conley and Mr. Hillenbrandt had prototypes of their new e-cigarette device manufactured by a supplier, Trans-Power International Co., Ltd. ("Trans-Power"), in China under conditions of confidentiality.
- 16. Fuma introduced its new e-cigarette device to the marketplace in August 12-14, 2009 at the Tri-State Tobacco and Candy Convention held at the Belterra Casino Resort and Spa in Belterra, Indiana. At the convention, Mr. Conley, for the first time, displayed final prototypes of the Fuma e-cigarette.

- 17. By no later than September 17, 2009, Mr. Conley and Mr. Hillenbrandt received in the United States commercial versions of their new e-cigarette that embodied the '604 patented design and that had been manufactured by their supplier, Trans-Power, in accordance with design instructions and fabrication details provided by Mr. Conley. (*See*, Ex. B, Trans-Power Invoice dated September 17, 2009.).
- 18. In September 2009, Fuma began offering for sale and selling their new product in the United States.
- 19. No later than November 2009, Fuma sold and delivered to customers in the United States their e-cigarette devices ("Fuma e-cigarette") made in accordance with the patent-in-suit. (*See* Ex. C, Invoice from Fuma to Great Midwest Tobacco, Evandale, Ohio dated November 5, 2009; Ex. D, Invoice from Fuma to Adco Distributing, Canton, Ohio dated November 20, 2009).
- 20. The Fuma e-cigarette is covered by and incorporates the invention defined by the claims of the patent-in-suit that are asserted in this case, specifically claims 4, 6, 12, 13, 14, 15, 16 and 18 of the '604 Patent. The Fuma e-cigarette constitutes and establishes an actual reduction to practice, in the United States, of the invention covered by at least the asserted claims of the patent-in-suit no later than September of 2009.
- 21. The devices that Fuma had manufactured and delivered to its facility in Medina, Ohio in September 2009 meet all the elements of at least the asserted claims of the patent-in-suit. (See Ex. E, Nov. 2, 2018 Declaration of G. Conley under 37 C.F.R. § 1.131).
- 22. Fuma's new e-cigarette devices were met with immediate success in the market. Fuma's sales went from approximately \$50,000 in the last quarter of 2009, to \$772,524 in 2010, to \$2,919,916 in 2011.

- 23. Fuma's success with its e-cigarette was recognized by others in the relevant field of technology shortly after it was introduced. Specifically, R.J. Reynolds Tobacco Company, through its Senior Vice President of Innovation, Mr. Dennis Potter, requested and was provided samples of Fuma's original versions of its patented e-cigarette in June 2009. After analyzing and testing the Fuma e-cigarettes, Mr. Potter reported to his superiors and co-workers at R.J. Reynolds Tobacco Company that the Fuma patented design was better than any of the e-cigarettes that Mr. Potter had previously analyzed and that it provided a user experience that more closely mimicked regular cigarette use. (Ex. F, D. Potter e-mail dated June 29, 2010, RJRV-F000684464).
- 24. R.J. Reynolds proceeded to market products that infringe Fuma's patent rights. Fuma sued R.J. Reynolds, and, in November 2021, R.J. Reynolds settled the litigations brought by Fuma. R.J. Reynolds paid Fuma a confidential amount to settle the litigations, purchased a license under the Fuma patent-in-suit, and agreed to mark their infringing products with the applicable Fuma patent numbers.
- 25. The Defendants have also marketed and sold products that infringe Fuma's patent rights, but the Defendants have not been authorized to do so and have not been granted a license to the Fuma patent-in-suit.

THE DEFENDANTS

26. Upon information and belief, Defendant AGI is a corporation organized and existing under the laws of the Commonwealth of Virginia with offices at 6601 West Broad Street, Richmond, Virginia 23230. Defendant AGI is a holding company and the ultimate parent entity of defendants Nu Mark, AGDC, and ACS.

- 27. Upon information and belief, Defendant Nu Mark is a corporation organized and existing under the laws of the Commonwealth of Virginia with offices at 6601 West Broad Street, Richmond, Virginia 23230. Nu Mark manufactured and marketed MarkTen® and Green Smoke® e-vapor products. Nu Mark was an active operating company selling e-cigarettes in the United States from 2012 to 2018.
- 28. Upon information and belief, Defendant AGDC is a corporation organized and existing under the laws of the Commonwealth of Virginia with offices at 6601 West Broad Street, Richmond, Virginia 23230. AGDC provides sales and distribution services to the Altria operating subsidiaries.
- 29. Upon information and belief, Defendant ACS is a corporation organized and existing under the laws of the Commonwealth of Virginia with offices at 6601 West Broad Street, Richmond, Virginia 23230. ACS provides various support services to the operating companies in areas such as legal regulatory, finance, human resources, and government affairs.

Altria Failed to Design a Successful Alternative Smoking Device of Its Own and Instead Adopted and Infringed Fuma's Patented Design.

- 30. Altria spent in excess of \$2 billion on the development of reduced-risk products before it entered the e-vapor industry. Altria did not have success with its internally developed products.
- 31. Altria spent \$350 million to create the Center for Research and Technology to focus on internal development of reduced risk products, and the Center for Research and Technology, which opened in 2007, is a state-of-the-art facility with 150,000 square feet of lab space, leading equipment, and hundreds of scientists. Nevertheless, Altria has still not successfully commercialized an internally developed project.

- 32. Nu Mark was established as a new operating company of Altria in 2012 with the goal of having a range of products that Altria could use to convert smokers away from smoking and to innovative products, like electronic cigarettes.
- 33. Altria's former CEO, Howard Willard, testified under oath that Altria put substantial resources into Nu Mark and spent well over half a billion dollars, maybe up to a billion dollars, investing in the e-vapor category. That investment included internal development as well as product acquisitions.
- 34. Altria found that development for electronic products like e-cigarettes required an entirely different construct than what was required for conventional tobacco products such as cigarettes. It required engineering skills, software skills and it is much harder to develop innovative electronic products than it is to maintain and line extend products that are in the combustible cigarette business.
- 35. Altria launched five internal projects to develop e-vapor devices beginning in 2013, none of which had yielded a viable product by 2018.
- 36. Because it could not develop an e-vapor product, Altria turned to acquiring existing products. Every product that Nu Mark launched into the marketplace was a result of an external acquisition, licensing arrangement, or partnership with another e-vapor company.
- 37. In 2013, Nu Mark introduced its first e-vapor product, a cig-a-like called MarkTen King Size. That product came from a Chinese contract manufacturer named Kimree. MarkTen King Size was essentially a shorter version of the later iteration, MarkTen XL. Altria abandoned the MarkTen King Size in favor of MarkTen XL in 2015.

- 38. In April 2014, Nu Mark acquired the e-vapor business of an Israeli company named Green Smoke, Inc. Nu Mark incorporated Green Smoke's technology into a new iteration of the MarkTen brand, the "MarkTen XL," which also was a cig-a-like.
- 39. After the launch of MarkTen XL, Nu Mark kept the Green Smoke brand in the market and used it to target an older adult vaper consumer demographic and explore alternative distribution channels, such as tobacco stores and e-commerce.
- 40. In 2016, shipment volume for Nu Mark's e-vapor products had grown by six percent. Since its launch in 2015, MarkTen had expanded to 51,000 stores and Nu Mark planned to add an additional 21,000 stores in 2017.
- 41. During March and April of 2017, Altria and Fuma communicated regarding the '604 patent that had issued in January of that same year. On March 3, 2017, Mr. Conley of Fuma contacted Eric Hawes, Director, E-Vapor Technology and Platform Development at Altria and informed Altria of "[t]he issued US utility patent . . . 9,532,604." (Ex. G, 2017 03 03 through 2017 04 05 LinkedIn conversation between G. Conley and E. Hawes at 2). Mr. Hawes arranged a telephone conversation that took place on March 10, 2017. (*Id.* at 5). During that phone call, Altria showed interest in Fuma's '604 Patent and it was agreed that Fuma would send Altria samples of Fuma's products. (Ex. H, 2017 03 10 E-mail from G. Conley to E. Hawes of Altria). Mr. Conley e-mailed Mr. Hawes on March 22, 2017, confirming that Fuma product samples had been sent to Altria, and included a copy of the '604 patent and other material describing the '604 patent technology. (Ex. I, 2017 03 22 E-mail from G. Conley to E Hawes of Altria (with attachments)).
- 42. On March 23, 2017, Mr. Hawes confirmed receipt of the '604 patent and related materials, and Mr. Hawes stated that he was "meeting with some of our IP team later next week

and will review," and arranged a follow-up call for April of 2017. (Ex. J, 2017 03 23 E-mail from E. Hawes of Altria to G. Conley). Mr. Hawes and Mr. Conley met by phone again on April 13, 2017, and discussions between the parties concluded. (Ex. K, 2017 04 13 Meeting Invite from E. Hawes to G. Conley). Despite Altria's knowledge of both Fuma and Fuma's '604 patent, Altria never purchased a license for the '604 patent nor did Altria obtain Fuma's permission to sell products that were infringing the '604 patent. Instead, Altria continued to sell its infringing MarkTen XL and Green Smoke products.

- 43. In February 2018, and after discussions with Fuma had concluded, Defendants introduced the MarkTen Elite product.
- 44. Fuma initiated enforcement proceedings under its patents, including the '604 patent, against R.J. Reynolds Vapor Company in 2019 by filing suit in the U.S. District Court for the Middle District of North Carolina. The parties reached settlement in November 2021 just before trial was to begin, with R.J. Reynolds Vapor Company making a substantial payment in return for a non-exclusive license to the Fuma '604 patent family.
- 45. On May 20, 2022, Fuma sent a letter to the general counsel of Altria Group, Inc., Mr. William F. Gifford, Jr., offering to license the Fuma patents to Altria in return for an appropriate royalty on Altria's infringing sales. The letter also identified the previous settlement and license with R.J. Reynolds Vapor Company, as well as providing detailed claim charts and a draft complaint.
- 46. Counsel for Fuma and counsel for Altria communicated after Altria received the letter, at which time Fuma requested that Altria identify, under conditions of confidentiality, the total revenue and profit of its infringing sales. Altria declined to provide the requested

information and never made a settlement offer, thereby necessitating the filing of the current lawsuit.

47. The MarkTen XL, Green Smoke, and MarkTen Elite products are all substantial copies of the patented structure of the original Fuma E-Cigarette. Pictured below is one of the devices that Fuma had manufactured and delivered to its facility in Medina, Ohio in September 2009 compared side-by-side with the Altria Green Smoke and labeled to identify features of the asserted '604 Patent claims.



48. After making a multi-billion dollar investment in JUUL Labs, Inc., Defendants withdrew the MarkTen XL, Green Smoke, and MarkTen Elite products from the market, but

Defendants remain liable for infringement that occurred after the patent-in-suit issued on January 3, 2017.

THE PATENT-IN-SUIT

49. On January 3, 2017, the U.S. Patent Office duly and legally issued United States Patent No. 9,532,604 ("the '604 Patent") entitled "Electronic Vaporizer." Fuma holds all substantial rights, title, and interest to the '604 Patent. A true and correct copy of the '604 Patent is attached as Exhibit A.

INFRINGEMENT OF U.S. PATENT NO. 9,532,604

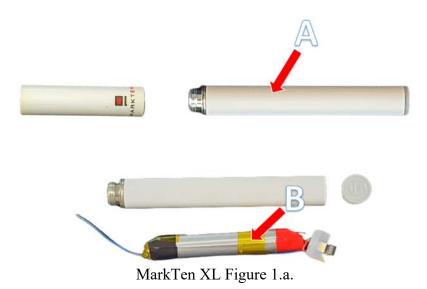
- 50. Fuma hereby realleges each allegation set forth in the paragraphs above as though fully set forth herein.
- 51. Upon information and belief, Defendants had both actual and constructive knowledge of the '604 Patent soon after issuance based on Fuma's marking of its products with the '604 Patent number.
- 52. Defendants have had actual knowledge of the '604 Patent no later than March of 2017 when Mr. Conley contacted Mr. Hawes, and Defendants knew that their activities constituted infringement of the '604 Patent.
- 53. Defendants have directly infringed the '604 Patent in violation of at least 35 U.S.C. § 271(a) by, themselves and/or through their agents, unlawfully and wrongfully making, using, importing, offering to sell, and/or selling vaporizing device products embodying one or more of the inventions claimed in the '604 Patent, within, from and/or into the United States without permission or license from Plaintiff.
- 54. The vaporizing products that directly infringe the '604 Patent include the MarkTen XL, Green Smoke, and MarkTen Elite.

- 55. The images of the products set forth herein accurately show the features of those products.
- 56. The accused products infringe the '604 patent literally and/or under the doctrine of equivalents.
- 57. The MarkTen XL (including variants such as the MarkTen Bold XL) product infringes at least claims 4, 6, 12, 13, 14, 15, and 18 of Fuma's '604 Patent, the Green Smoke product infringes at least claims 4, 6, 12, 13, 14, 15, 16, and 18 of Fuma's '604 Patent, and the MarkTen Elite product infringes at least claims 4, 6, 12, 13, 14, 15, 16, and 18 of Fuma's '604 Patent.

Direct Infringement: Altria MarkTen XL

- 58. Claim 1 of the '604 Patent reads as follows:
 - 1. An apparatus comprising:
 - a power source,
 - wherein the power source includes a battery,
 - wherein the power source includes an electrically conductive threaded portion; and
 - a cartridge having a housing that comprises an interior, wherein the housing includes a first end and a second end that is opposite the first end, wherein the housing includes a first aperture on the first end and a second aperture on the second end,
 - wherein the housing includes an airflow passageway that extends centrally and axially with respect to the housing intermediate of the first aperture on the first end of the housing and the second aperture on the second end of the housing,
 - wherein the airflow passageway is configured to allow art airflow through the cartridge from the first aperture to the second aperture of the housing,
 - wherein the first end of the housing includes an electrically conductive threaded portion that is adapted to mechanically and electrically couple to the electrically conductive threaded portion of the power source,
 - wherein the housing includes a solution holding medium comprising a solution located in the interior of the housing,
 - wherein the solution holding medium surrounds the airflow passageway in the interior of the housing and intermediate of the first end and the second end.
 - wherein the housing includes a heating element located in the interior of the housing,
 - wherein the heating element is electrically configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow from the second aperture responsive to electrical power received from the battery through the electrically conductive threaded portions of the cartridge and power source.

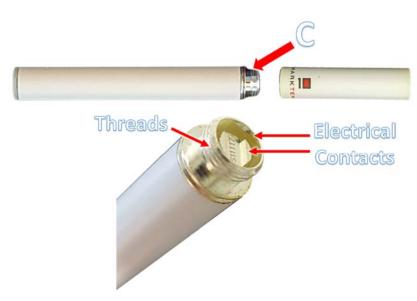
- 59. As shown in the figures set forth in paragraphs 60 through 70, the MarkTen XL meets every limitation recited in Claim 1 of the '604 Patent.
- 60. The MarkTen XL includes "a power source [A], wherein the power source [A] includes a battery [B]" as recited in Claim 1 of the '604 Patent.



61.

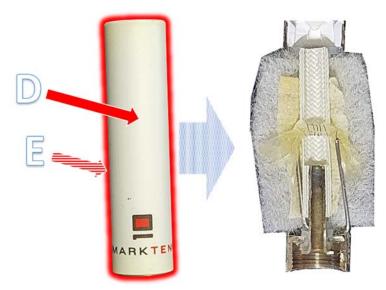
portion [C]."

The MarkTen XL's power source "includes an electrically conductive threaded



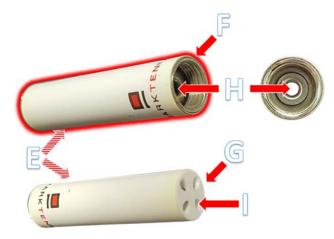
MarkTen XL Figure 1.b.

62. The MarkTen XL includes "a cartridge [D] having a housing [E] that comprises an interior."



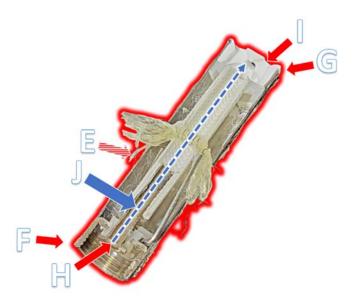
MarkTen XL Figure 1.c.

63. The MarkTen XL's housing "includes a first end [F] and a second end [G] that is opposite the first end [F], wherein the housing [E] includes a first aperture [H] on the first end [F] and a second aperture [I] on the second end [G]." Any of the apertures on the second end [G] of the Altria MarkTen XL product satisfies the second aperture [I] requirement (one illustrated):



MarkTen XL Figure 1.d.

64. The MarkTen XL's housing "includes an airflow passageway [J] that extends centrally and axially with respect to the housing [E] intermediate of the first aperture [H] on the first end [F] of the housing and the second aperture [I] on the second end [G] of the housing."



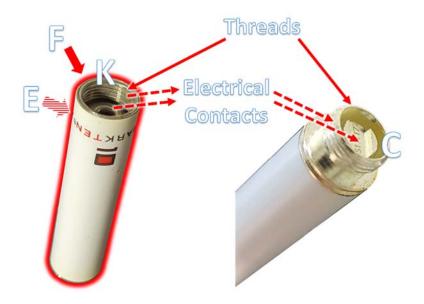
MarkTen XL Figure 1.e.

65. The MarkTen XL's "airflow passageway [J] is configured to allow art [sic] airflow through the cartridge [D] from the first aperture [H] to the second aperture [I] of the housing [E]."



MarkTen XL Figure 1.f.

66. The MarkTen XL has a housing "wherein the first end [F] of the housing [E] includes an electrically conductive threaded portion [K] that is adapted to mechanically and electrically couple to the electrically conductive threaded portion of the power source [C]."



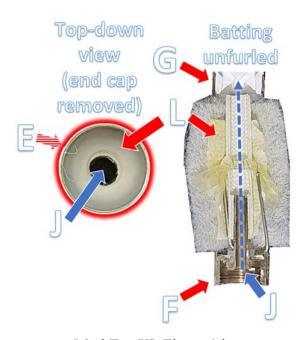
MarkTen XL Figure 1.g.

67. The MarkTen XL's housing "includes a solution holding medium [L] comprising a solution [M] located in the interior of the housing [E]."



MarkTen XL Figure 1.h.

68. The MarkTen XL's "solution holding medium [L] surrounds the airflow passageway [J] in the interior of the housing [E] and intermediate of the first end [F] and the second end [G]."



MarkTen XL Figure 1.i.

69. The MarkTen XL's housing "includes a heating element [N] located in the interior of the housing [E]."



MarkTen XL Figure 1.j.

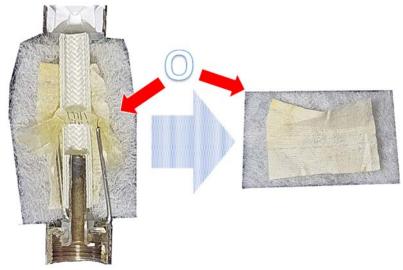
70. The MarkTen XL's "heating element [N] is electrically configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow from the second aperture [I] responsive to electrical power received from the battery [B] through the electrically conductive threaded portions of the cartridge [K] and power source [C]."



MarkTen XL Figure 1.k.

- 71. Claim 2 of the '604 Patent reads as follows:
 - 2. The apparatus according to claim 1, wherein the solution holding medium includes at least one of an absorbent material, a chamber, a reservoir, a capsule, or any combination thereof.
- 72. As shown in the figures set forth in the following paragraph, the MarkTen XL meets every limitation recited in Claim 2 of the '604 Patent.

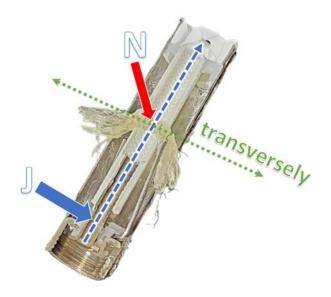
73. The MarkTen XL's "solution holding medium [L] includes at least one of an absorbent material [O], a chamber, a reservoir, a capsule, or any combination thereof."



MarkTen XL Figure 2.

- 74. Claim 4 of the '604 Patent reads as follows:
 - **4.** The apparatus according to claim **1**, wherein the heating element extends transversely across the airflow passageway, whereby airflow through the passageway passes on both transverse sides of the element.
- 75. As shown in the figures set forth in paragraphs 76 through 77, the MarkTen XL meets every limitation recited in Claim 4 of the '604 Patent.

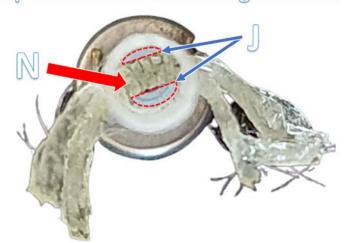
76. The MarkTen XL's "heating element [N] extends transversely across the airflow passageway [J]."



MarkTen XL Figure 4.a.

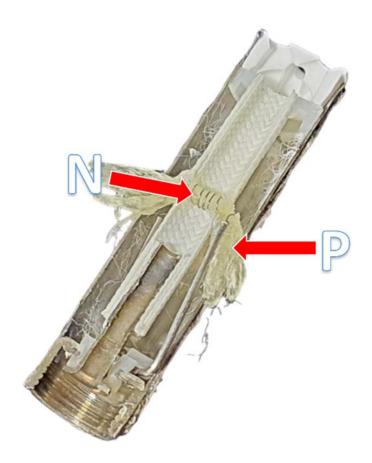
77. In the MarkTen XL, "airflow through the passageway [J] passes on both transverse sides of the element [N]."

Top-down view of heating element



MarkTen XL Figure 4.b.

- 78. Claim 6 of the '604 Patent reads as follows:
 - 6. The apparatus according to claim 2, wherein the heating element comprises a wicking material to attract the solution from the solution holding medium to the heating element.
- 79. As shown in the figures set forth in the following paragraph, the MarkTen XL meets every limitation recited in Claim 6 of the '604 Patent.
- 80. The MarkTen XL's "heating element [N] comprises a wicking material [P] to attract the solution from the solution holding medium to the heating element [N]."



MarkTen XL Figure 6.

81. Claim 12 of the '604 Patent reads as follows:

12. An apparatus comprising:

electronic cigarette cartridge, wherein the electronic cigarette cartridge includes a housing,

wherein the housing is constructed of a non-metallic material, wherein the housing includes:

an interior:

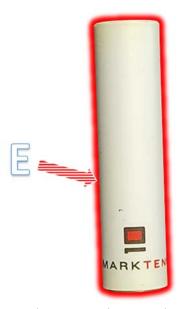
- a first end;
- a second end that is opposite the first end;
- a heating element located in the interior of the housing;
- an airflow passageway that extends intermediate of the first end and the second end axially through the interior of the housing along a central longitudinal axis of the housing, wherein the airflow passageway enables airflow from the first end to the second end;
- a solution holding medium located in the interior of the housing, wherein the medium extends in surrounding relation of the heating element and the airflow passageway, wherein the medium includes a liquid solution, wherein the medium includes at least one of an absorbent material, a chamber, a reservoir, a capsule, or any combination thereof,
- wherein the first end of the housing includes an electrically conductive threaded portion that is configured to mechanically and electrically couple to a further electrically conductive threaded portion in operative connection with a power source, wherein the heating element is configured to vaporize at least a portion of the solution for oral delivery from the second end of the housing upon receiving current from the power source through the electrically conductive threaded portion of the cartridge.
- 82. As shown in the figures set forth in paragraphs 83 through 94, the MarkTen XL meets every limitation recited in Claim 12 of the '604 Patent.

83. The MarkTen XL has an "electronic cigarette cartridge [D], wherein the electronic cigarette cartridge [D] includes a housing [E]."



MarkTen XL Figure 12.a.

84. The MarkTen XL's "housing [E] is constructed of a non-metallic material." The MarkTen XL has a polymer label and endcap.



MarkTen XL Figure 12.b.

85. The MarkTen XL's "housing [E] includes: an interior; a first end [F]; a second end [G] that is opposite the first end [F]."



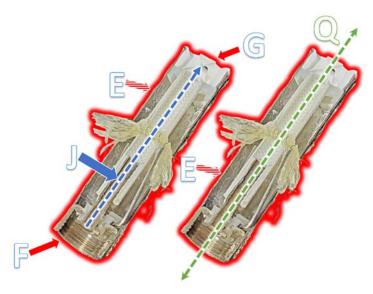
MarkTen XL Figure 12.c.

86. The MarkTen XL has "a heating element [N] located in the interior of the housing [E]."



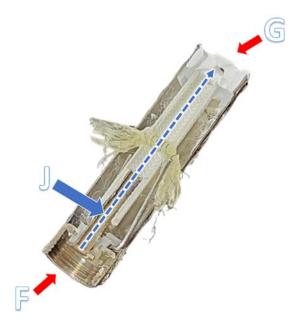
MarkTen XL Figure 12.d.

87. The MarkTen XL has "an airflow passageway [J] that extends intermediate of the first end [F] and the second end [G] axially through the interior of the housing [E] along a central longitudinal axis [Q] of the housing [E]."



MarkTen XL Figure 12.e.

88. The MarkTen XL's "airflow passageway [J] enables airflow from the first end [F] to the second end [G]."



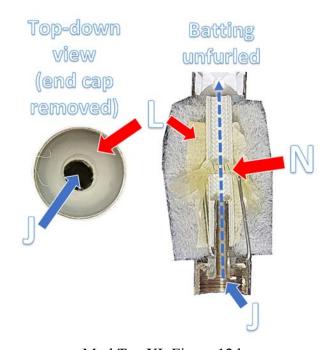
MarkTen XL Figure 12.f.

89. The MarkTen XL has "a solution holding medium [L] located in the interior of the housing [E]."



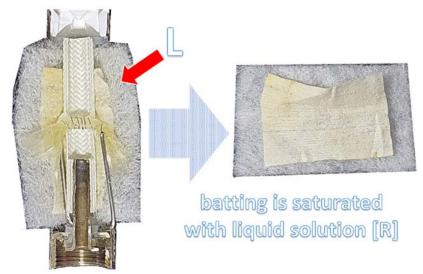
MarkTen XL Figure 12.g.

90. The MarkTen XL's solution holding "medium [L] extends in surrounding relation of the heating element [N] and the airflow passageway [J]."



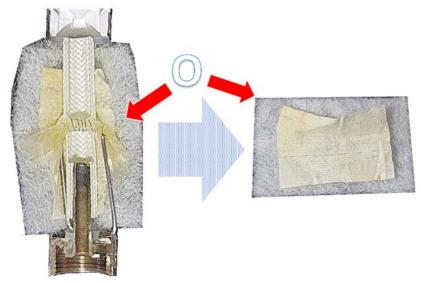
MarkTen XL Figure 12.h.

91. The MarkTen XL's solution holding "medium [L] includes a liquid solution [R]."



MarkTen XL Figure 12.i.

92. The MarkTen XL's solution holding "medium includes at least one of an absorbent material [O], a chamber, a reservoir, a capsule, or any combination thereof."



MarkTen XL Figure 12.j.

93. The MarkTen XL's "first end [F] of the housing [E] includes an electrically conductive threaded portion [K] that is configured to mechanically and electrically couple to a further electrically conductive threaded portion [C] in operative connection with a power source [A]."



MarkTen XL Figure 12.k.

94. The MarkTen XL's "heating element [N] is configured to vaporize at least a portion of the solution for oral delivery from the second end [G] of the housing upon receiving current from the power source [A] through the electrically conductive threaded portion of the cartridge [K]."



MarkTen XL Figure 12.1.

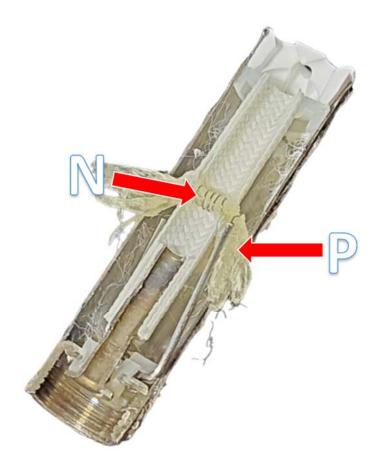
- 95. Claim 13 of the '604 Patent reads as follows:
 - 13. The apparatus according to claim 12, wherein the solution comprises propylene glycol.
- 96. As shown in the figure set forth in the following paragraph, the MarkTen XL meets every limitation recited in Claim 13 of the '604 Patent.
 - 97. The MarkTen XL's "solution [M] comprises propylene glycol."



MarkTen XL Figure 13.

- 98. Claim 14 of the '604 Patent reads as follows:
 - 14. The apparatus according to claim 12, wherein the heating element comprises a wicking material that is configured to attract the solution from the solution holding medium.
- 99. As shown in the figure set forth in the following paragraph, the MarkTen XL meets every limitation recited in Claim 14 of the '604 Patent.

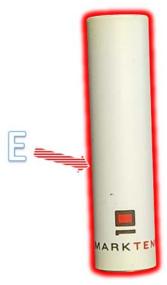
100. The MarkTen XL's "heating element [N] comprises a wicking material [P] that is configured to attract the solution from the solution holding medium."



MarkTen XL Figure 14.

- 101. Claim 15 of the '604 Patent reads as follows:
 - 15. The apparatus according to claim 12, wherein the non-metallic material is one of a polymer or a ceramic.
- 102. As shown in the figure set forth in the following paragraph, the MarkTen XL meets every limitation recited in Claim 15 of the '604 Patent.

103. The MarkTen XL's housing [E] is constructed of a non-metallic material "wherein the non-metallic material is one of a polymer or a ceramic." The MarkTen XL has a polymer label and endcap.



MarkTen XL Figure 15.

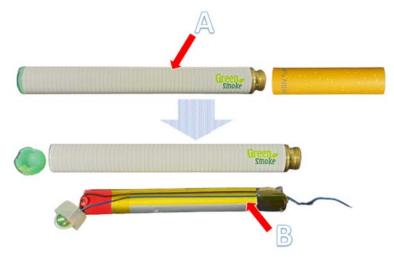
- 104. Claim 18 of the '604 Patent reads as follows:
 - 18. The apparatus according to claim 12, further comprising the power source.
- 105. As shown in the figure set forth in the following paragraph, the MarkTen XL meets every limitation recited in Claim 18 of the '604 Patent.
 - 106. The MarkTen XL further comprises "the power source [A]."



MarkTen XL Figure 18.

Direct Infringement: Altria Green Smoke

- 107. As shown in the figures set forth in paragraphs 108 through 118, the Green Smoke meets every limitation recited in Claim 1 of the '604 Patent.
- 108. The Green Smoke includes "a power source [A], wherein the power source [A] includes a battery [B]" as recited in Claim 1 of the '604 Patent.



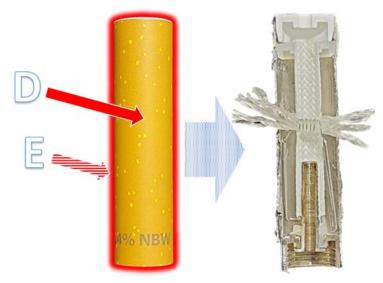
Green Smoke Figure 1.a.

109. The Green Smoke's power source "includes an electrically conductive threaded portion [C]."



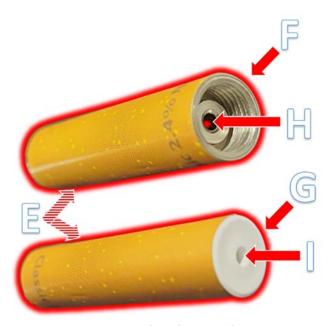
Green Smoke Figure 1.b.

110. The Green Smoke includes "a cartridge [D] having a housing [E] that comprises an interior."



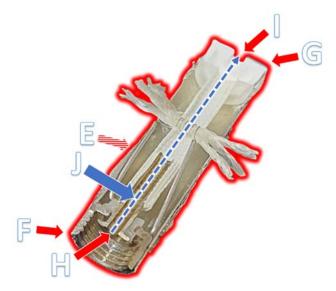
Green Smoke Figure 1.c.

111. The Green Smoke's housing "includes a first end [F] and a second end [G] that is opposite the first end [F], wherein the housing [E] includes a first aperture [H] on the first end [F] and a second aperture [I] on the second end [G]."



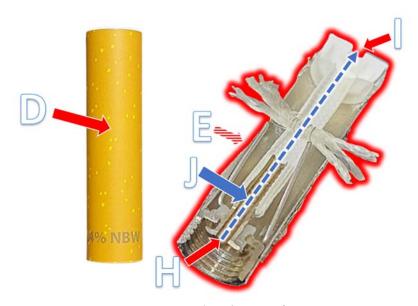
Green Smoke Figure 1.d.

112. The Green Smoke's housing "includes an airflow passageway [J] that extends centrally and axially with respect to the housing [E] intermediate of the first aperture [H] on the first end [F] of the housing and the second aperture [I] on the second end [G] of the housing."



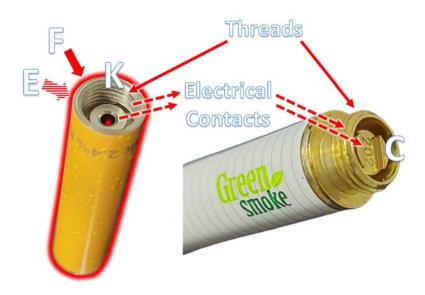
Green Smoke Figure 1.e.

113. The Green Smoke's "airflow passageway [J] is configured to allow art [sic] airflow through the cartridge [D] from the first aperture [H] to the second aperture [I] of the housing [E]."



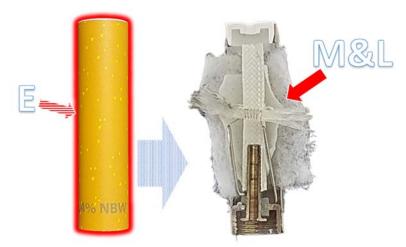
Green Smoke Figure 1.f.

114. The Green Smoke has a housing "wherein the first end [F] of the housing [E] includes an electrically conductive threaded portion [K] that is adapted to mechanically and electrically couple to the electrically conductive threaded portion of the power source [C]."



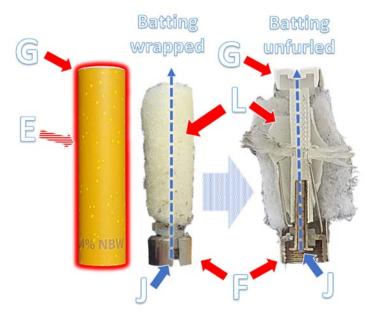
Green Smoke Figure 1.g.

115. The Green Smoke's housing "includes a solution holding medium [L] comprising a solution [M] located in the interior of the housing [E]."



Green Smoke Figure 1.h.

116. The Green Smoke's "solution holding medium [L] surrounds the airflow passageway [J] in the interior of the housing [E] and intermediate of the first end [F] and the second end [G]."



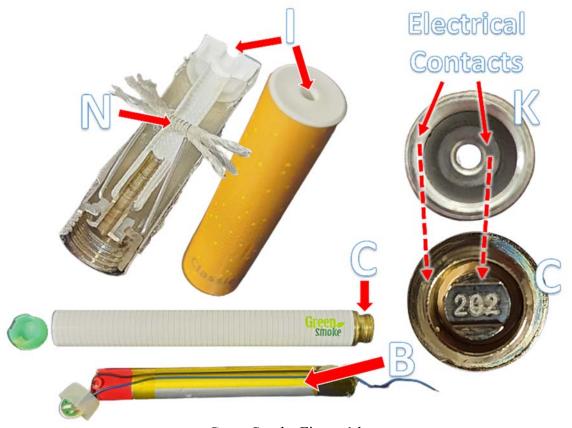
Green Smoke Figure 1.i.

117. The Green Smoke's housing "includes a heating element [N] located in the interior of the housing [E]."



Green Smoke Figure 1.j.

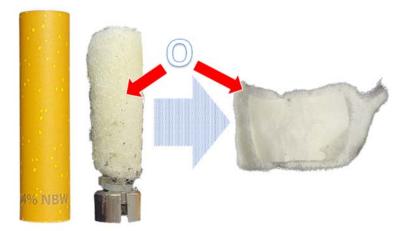
118. The Green Smoke's "heating element [N] is electrically configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow from the second aperture [I] responsive to electrical power received from the battery [B] through the electrically conductive threaded portions of the cartridge [K] and power source [C]."



Green Smoke Figure 1.k.

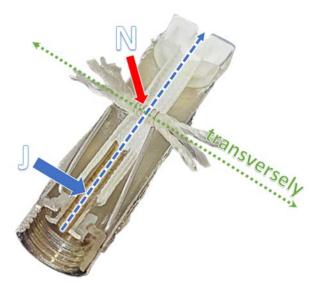
119. As shown in the figure set forth in the following paragraph, the Green Smoke meets every limitation recited in Claim 2 of the '604 Patent.

120. The Green Smoke's "solution holding medium [L] includes at least one of an absorbent material [O], a chamber, a reservoir, a capsule, or any combination thereof."



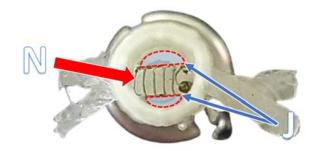
Green Smoke Figure 2.

- 121. As shown in the figures set forth in paragraphs 122 through 123, the Green Smoke meets every limitation recited in Claim 4 of the '604 Patent.
- 122. The Green Smoke's "heating element [N] extends transversely across the airflow passageway [J]."



Green Smoke Figure 4.a.

123. In the Green Smoke, "airflow through the passageway [J] passes on both transverse sides of the element [N]."



Top-down view of heating element

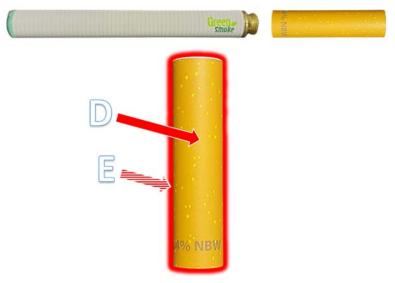
Green Smoke Figure 4.b.

- 124. As shown in the figure set forth in the following paragraph, the Green Smoke meets every limitation recited in Claim 6 of the '604 Patent.
- 125. The Green Smoke's "heating element [N] comprises a wicking material [P] to attract the solution from the solution holding medium to the heating element [N]."



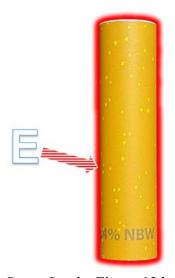
Green Smoke Figure 6.

- 126. As shown in the figures set forth in paragraphs 127 through 138, the Green Smoke meets every limitation recited in Claim 12 of the '604 Patent.
- 127. The Green Smoke has an "electronic cigarette cartridge [D], wherein the electronic cigarette cartridge [D] includes a housing [E]."



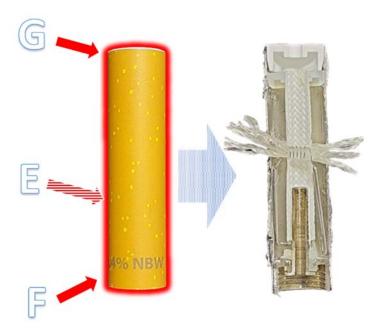
Green Smoke Figure 12.a.

128. The Green Smoke's "housing [E] is constructed of a non-metallic material." The Green Smoke has a polymer label and endcap.



Green Smoke Figure 12.b.

129. The Green Smoke's "housing [E] includes: an interior; a first end [F]; a second end [G] that is opposite the first end [F]."



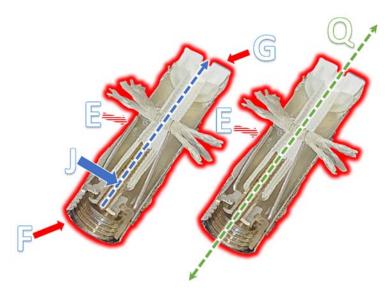
Green Smoke Figure 12.c.

130. The Green Smoke has "a heating element [N] located in the interior of the housing [E]."



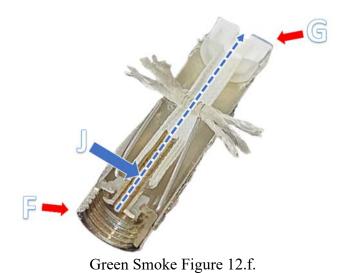
Green Smoke Figure 12.d.

131. The Green Smoke has "an airflow passageway [J] that extends intermediate of the first end [F] and the second end [G] axially through the interior of the housing [E] along a central longitudinal axis [Q] of the housing [E]."

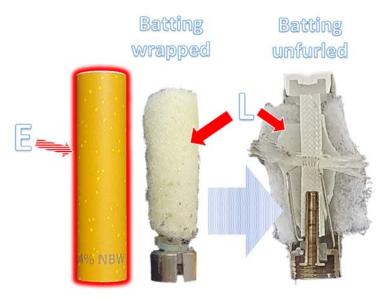


Green Smoke Figure 12.e.

132. The Green Smoke's "airflow passageway [J] enables airflow from the first end [F] to the second end [G]."

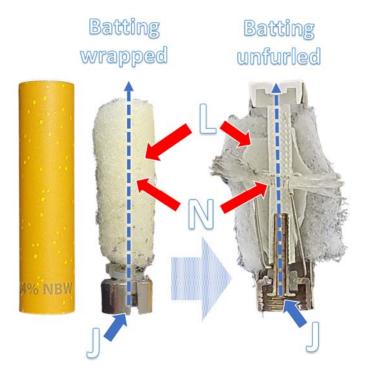


133. The Green Smoke has "a solution holding medium [L] located in the interior of the housing [E]."



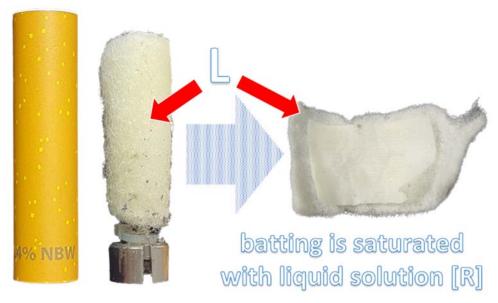
Green Smoke Figure 12.g.

134. The Green Smoke's solution holding "medium [L] extends in surrounding relation of the heating element [N] and the airflow passageway [J]."



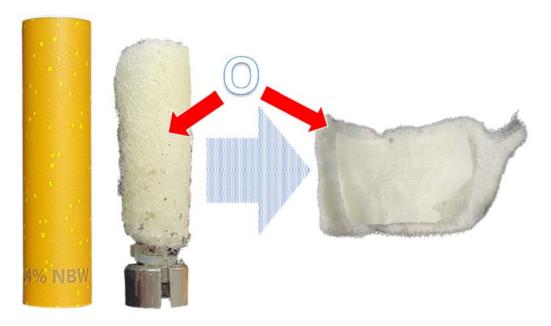
Green Smoke Figure 12.h.

135. The Green Smoke's solution holding "medium [L] includes a liquid solution [R]."



Green Smoke Figure 12.i.

136. The Green Smoke's solution holding "medium includes at least one of an absorbent material [O], a chamber, a reservoir, a capsule, or any combination thereof."



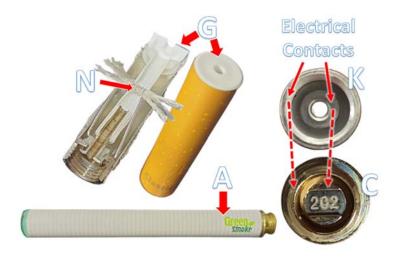
Green Smoke Figure 12.j.

137. The Green Smoke's "first end [F] of the housing [E] includes an electrically conductive threaded portion [K] that is configured to mechanically and electrically couple to a further electrically conductive threaded portion [C] in operative connection with a power source [A]."



Green Smoke Figure 12.k.

138. The Green Smoke's "heating element [N] is configured to vaporize at least a portion of the solution for oral delivery from the second end [G] of the housing upon receiving current from the power source [A] through the electrically conductive threaded portion of the cartridge [K]."



Green Smoke Figure 12.1.

- 139. As shown in the figure set forth in the following paragraph, the Green Smoke meets every limitation recited in Claim 13 of the '604 Patent.
 - 140. The Green Smoke's "solution [M] comprises propylene glycol."



Green Smoke Figure 13.

- 141. As shown in the figure set forth in the following paragraph, the Green Smoke meets every limitation recited in Claim 14 of the '604 Patent.
- 142. The Green Smoke's "heating element [N] comprises a wicking material [P] that is configured to attract the solution from the solution holding medium."



Green Smoke Figure 14.

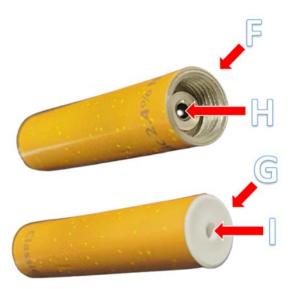
- 143. As shown in the figure set forth in the following paragraph, the Green Smoke meets every limitation recited in Claim 15 of the '604 Patent.
- 144. The Green Smoke's housing [E] is constructed of a non-metallic material "wherein the non-metallic material is one of a polymer or a ceramic." The Green Smoke has a polymer label and endcap.



Green Smoke Figure 15.

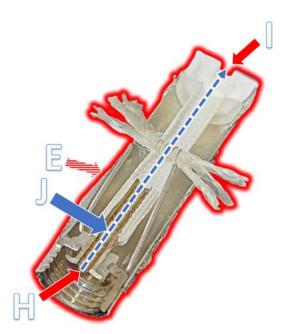
- 145. Claim 16 of the '604 Patent reads as follows:
 - 16. The apparatus according to claim 12, wherein the first end comprises a centrally located first aperture and the second end comprises a centrally located second aperture, wherein the airflow passageway extends between the first aperture and the second aperture axially through the interior of the housing, and wherein at least a portion of the heating element extends in the airflow passageway, and wherein no portion of the solution holding medium intersects the central longitudinal axis.
- 146. As shown in the figures set forth in paragraphs 147 through 150, the Green Smoke meets every limitation recited in Claim 16 of the '604 Patent.

147. The Green Smoke's "first end [F] comprises a centrally located first aperture [H] and the second end [G] comprises a centrally located second aperture [I]."



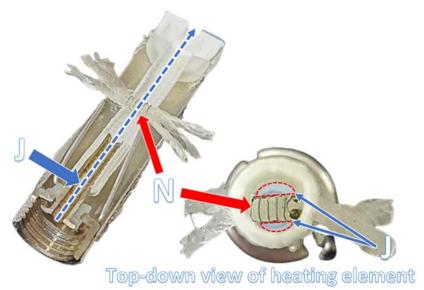
Green Smoke Figure 16.a.

148. The Green Smoke's "airflow passageway [J] extends between the first aperture [H] and the second aperture [I] axially through the interior of the housing [E]."



Green Smoke Figure 16.b.

149. In the Green Smoke, "at least a portion of the heating element [N] extends in the airflow passageway [J]."



Green Smoke Figure 16.c.

150. In the Green Smoke, "no portion of the solution holding medium [L] intersects the central longitudinal axis [Q]."



Green Smoke Figure 16.d.

- 151. As shown in the figure set forth in the following paragraph, the Green Smoke meets every limitation recited in Claim 18 of the '604 Patent.
 - 152. The Green Smoke further comprises "the power source [A]."



Green Smoke Figure 18.

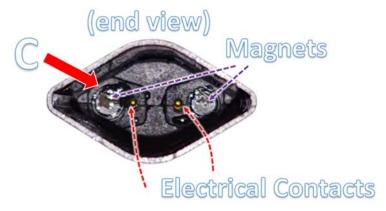
Direct Infringement: Altria MarkTen Elite

- 153. As shown in the figures set forth in paragraphs 154 through 164, the MarkTen Elite meets every limitation recited in Claim 1 of the '604 Patent.
- 154. The MarkTen Elite includes "a power source [A], wherein the power source [A] includes a battery [B]" as recited in Claim 1 of the '604 Patent.



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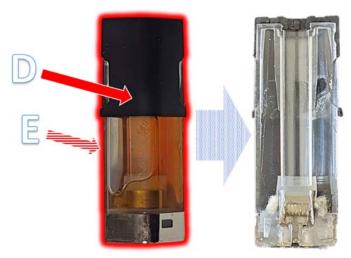
155. The MarkTen Elite's power source "includes an electrically conductive threaded portion [C]."



MarkTen Elite Figure 1.b.

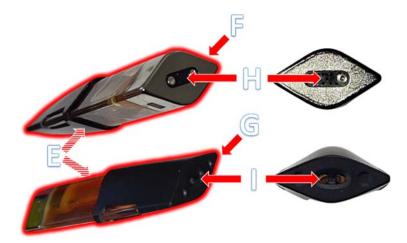
The accused structure depicted as element [C], including the annotated electrical contacts, is insubstantially different from an electrically conductive threaded portion, and performs the same function of operatively connecting the cartridge with the power source in substantially the same way, by mechanically and electrically coupling the cartridge and the power source, and yields the same result: enabling the generation of vapor for the user.

156. The MarkTen Elite includes "a cartridge [D] having a housing [E] that comprises an interior."



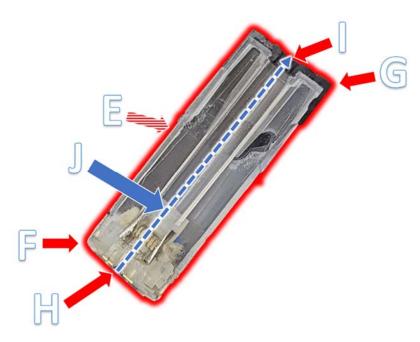
MarkTen Elite Figure 1.c.

157. The MarkTen Elite's housing "includes a first end [F] and a second end [G] that is opposite the first end [F], wherein the housing [E] includes a first aperture [H] on the first end [F] and a second aperture [I] on the second end [G]."



MarkTen Elite Figure 1.d.

158. The MarkTen Elite's housing "includes an airflow passageway [J] that extends centrally and axially with respect to the housing [E] intermediate of the first aperture [H] on the first end [F] of the housing and the second aperture [I] on the second end [G] of the housing."



MarkTen Elite Figure 1.e.

159. The MarkTen Elite's "airflow passageway [J] is configured to allow art [sic] airflow through the cartridge [D] from the first aperture [H] to the second aperture [I] of the housing [E]."



MarkTen Elite Figure 1.f.

160. The MarkTen Elite has a housing "wherein the first end [F] of the housing [E] includes an electrically conductive threaded portion [K] that is adapted to mechanically and electrically couple to the electrically conductive threaded portion of the power source [C]."



MarkTen Elite Figure 1.g.

The accused structure depicted as element [K], including the annotated electrical contacts, is insubstantially different from an electrically conductive threaded portion, and performs the same

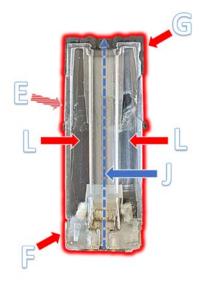
function of operatively connecting the cartridge with the power source in substantially the same way, by mechanically and electrically coupling the cartridge and the power source, and yields the same result: enabling the generation of vapor for the user.

161. The MarkTen Elite's housing "includes a solution holding medium [L] comprising a solution [M] located in the interior of the housing [E]."



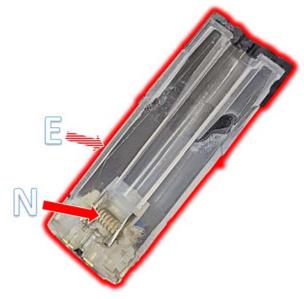
MarkTen Elite Figure 1.h.

162. The MarkTen Elite's "solution holding medium [L] surrounds the airflow passageway [J] in the interior of the housing [E] and intermediate of the first end [F] and the second end [G]."



MarkTen Elite Figure 1.i.

163. The MarkTen Elite's housing "includes a heating element [N] located in the interior of the housing [E]."



MarkTen Elite Figure 1.j.

164. The MarkTen Elite's "heating element [N] is electrically configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow from the second aperture [I] responsive to electrical power received from the battery [B] through the electrically conductive threaded portions of the cartridge [K] and power source [C]."



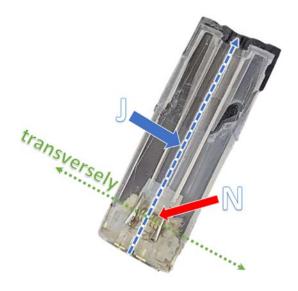
MarkTen Elite Figure 1.k.

- 165. As shown in the figure set forth in the following paragraph, the MarkTen Elite meets every limitation recited in Claim 2 of the '604 Patent.
- 166. The MarkTen Elite's "solution holding medium [L] includes at least one of an absorbent material [O], a chamber, a reservoir, a capsule, or any combination thereof."



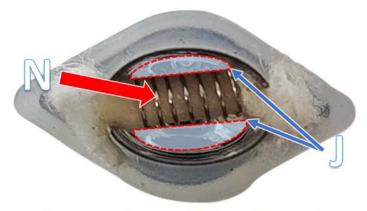
MarkTen Elite Figure 2.

- 167. As shown in the figures set forth in paragraphs 168 through 169, the MarkTen Elite meets every limitation recited in Claim 4 of the '604 Patent.
- 168. The MarkTen Elite's "heating element [N] extends transversely across the airflow passageway [J]."



MarkTen Elite Figure 4.a.

169. In the MarkTen Elite, "airflow through the passageway [J] passes on both transverse sides of the element [N]."



Top-down view of heating element

MarkTen Elite Figure 4.b.

- 170. As shown in the figure set forth in the following paragraph, the MarkTen Elite meets every limitation recited in Claim 6 of the '604 Patent.
- 171. The MarkTen Elite's "heating element [N] comprises a wicking material [P] to attract the solution from the solution holding medium to the heating element [N]."



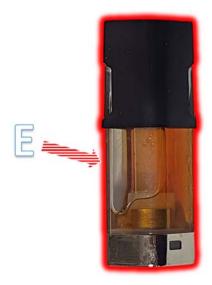
MarkTen Elite Figure 6.

- 172. As shown in the figures set forth in paragraphs 173 through 184, the MarkTen Elite meets every limitation recited in Claim 12 of the '604 Patent.
- 173. The MarkTen Elite has an "electronic cigarette cartridge [D], wherein the electronic cigarette cartridge [D] includes a housing [E]."



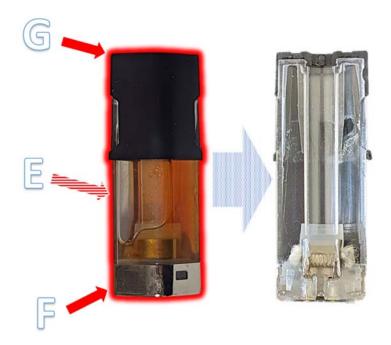
MarkTen Elite Figure 12.a.

174. The MarkTen Elite's "housing [E] is constructed of a non-metallic material."



MarkTen Elite Figure 12.b.

175. The MarkTen Elite's "housing [E] includes: an interior; a first end [F]; a second end [G] that is opposite the first end [F]."



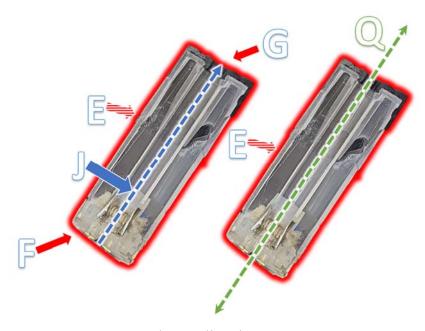
MarkTen Elite Figure 12.c.

176. The MarkTen Elite has "a heating element [N] located in the interior of the housing [E]."



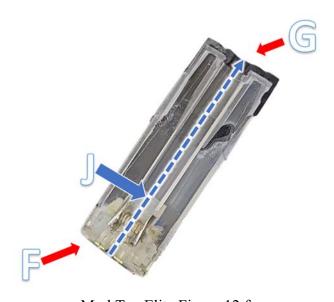
MarkTen Elite Figure 12.d.

177. The MarkTen Elite has "an airflow passageway [J] that extends intermediate of the first end [F] and the second end [G] axially through the interior of the housing [E] along a central longitudinal axis [Q] of the housing [E]."



MarkTen Elite Figure 12.e.

178. The MarkTen Elite's "airflow passageway [J] enables airflow from the first end [F] to the second end [G]."



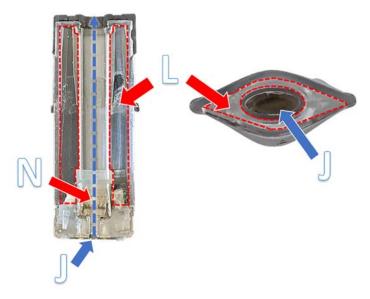
MarkTen Elite Figure 12.f.

179. The MarkTen Elite has "a solution holding medium [L] located in the interior of the housing [E]."



MarkTen Elite Figure 12.g.

180. The MarkTen Elite's solution holding "medium [L] extends in surrounding relation of the heating element [N] and the airflow passageway [J]."



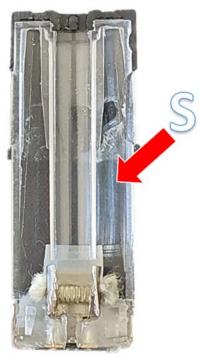
MarkTen Elite Figure 12.h.

181. The MarkTen Elite's solution holding "medium [L] includes a liquid solution [R]."



MarkTen Elite Figure 12.i.

182. The MarkTen Elite's solution holding "medium includes at least one of an absorbent material, a chamber, a reservoir [S], a capsule, or any combination thereof."



MarkTen Elite Figure 12.j.

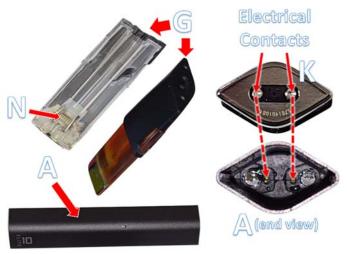
183. The MarkTen Elite's "first end [F] of the housing [E] includes an electrically conductive threaded portion [K] that is configured to mechanically and electrically couple to a further electrically conductive threaded portion [C] in operative connection with a power source [A]."



MarkTen Elite Figure 12.k.

The accused structures depicted as elements [K] and [C], including the annotated electrical contacts, are insubstantially different from an electrically conductive threaded portion, and perform the same function of operatively connecting the cartridge with the power source in substantially the same way, by mechanically and electrically coupling the cartridge and the power source, and yield the same result: enabling the generation of vapor for the user.

184. The MarkTen Elite's "heating element [N] is configured to vaporize at least a portion of the solution for oral delivery from the second end [G] of the housing upon receiving current from the power source [A] through the electrically conductive threaded portion of the cartridge [K]."



MarkTen Elite Figure 12.1.

- 185. As shown in the figure set forth in the following paragraph, the MarkTen Elite meets every limitation recited in Claim 13 of the '604 Patent.
 - 186. The MarkTen Elite's "solution [M] comprises propylene glycol."



MarkTen Elite Figure 13.

- 187. As shown in the figure set forth in the following paragraph, the MarkTen Elite meets every limitation recited in Claim 14 of the '604 Patent.
- 188. The MarkTen Elite's "heating element [N] comprises a wicking material [P] that is configured to attract the solution from the solution holding medium."



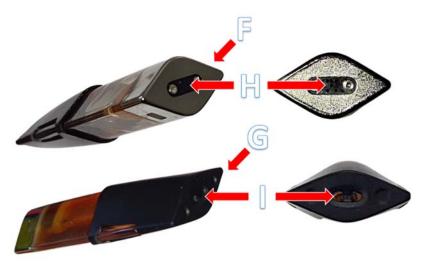
MarkTen Elite Figure 14.

- 189. As shown in the figure set forth in the following paragraph, the MarkTen Elite meets every limitation recited in Claim 15 of the '604 Patent.
- 190. The MarkTen Elite's housing [E] is constructed of a non-metallic material "wherein the non-metallic material is one of a polymer or a ceramic."



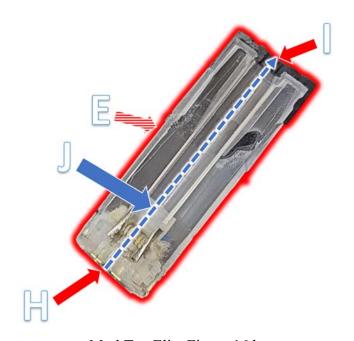
MarkTen Elite Figure 15.

- 191. As shown in the figures set forth in paragraphs 192 through 195, the MarkTen Elite meets every limitation recited in Claim 16 of the '604 Patent.
- 192. The MarkTen Elite's "first end [F] comprises a centrally located first aperture [H] and the second end [G] comprises a centrally located second aperture [I]."



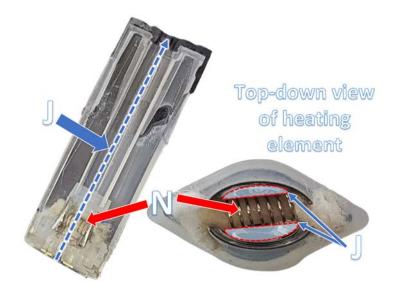
MarkTen Elite Figure 16.a.

193. The MarkTen Elite's "airflow passageway [J] extends between the first aperture [H] and the second aperture [I] axially through the interior of the housing [E]."



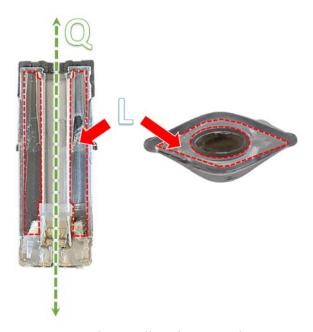
MarkTen Elite Figure 16.b.

194. In the MarkTen Elite, "at least a portion of the heating element [N] extends in the airflow passageway [J]."



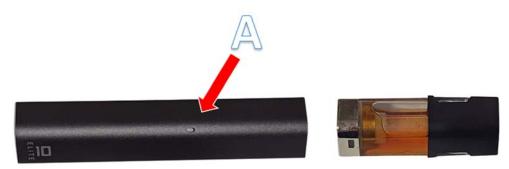
MarkTen Elite Figure 16.c.

195. In the MarkTen Elite, "no portion of the solution holding medium [L] intersects the central longitudinal axis [Q]."



MarkTen Elite Figure 16.d.

- 196. As shown in the figure set forth in the following paragraph, the MarkTen Elite meets every limitation recited in Claim 18 of the '604 Patent.
 - 197. The MarkTen Elite further comprises "the power source [A]."



MarkTen Elite Figure 18.

Indirect Infringement

- 198. Defendants have also contributorily infringed the patent-in-suit in violation of 35 U.S.C. § 271(c) by, themselves and/or through their agents, contributing to the direct infringement of the patent-in-suit by their customers by making, using, importing, offering to sell, and/or selling vaporizing device components that constitute a material part of the asserted claims of the patent-in-suit and that have no substantial non-infringing use, which, when used by its customers as instructed by Defendants, result in direct infringement of the asserted claims of the patent-in-suit by their customers, in this judicial district and within, from, and/or into the United States, without permission or license from Fuma.
- 199. Examples of vaporizing device components that constitute a material part of the invention of the asserted claims of the patent-in-suit that have no substantial non-infringing uses, and that contribute to the direct infringement of the asserted claims include the MarkTen XL cartridge, the MarkTen XL power unit, the Green Smoke cartridge, the Green Smoke power unit, the MarkTen Elite cartridge, and the MarkTen Elite power unit.

- 200. Defendants know and knew of the patent-in-suit. First, Fuma informed Altria of Fuma's '604 Patent in March 2017, shortly after the '604 Patent issued, and engaged in substantive communications about the '604 Patent. Second, upon information and belief, Defendants regularly survey the patent literature—and especially that of their competitors—for relevant patents and have encountered the patent-in-suit. Third, Fuma informed Altria that it infringed the '604 Patent in May of 2022 via a letter from counsel, as set forth above. Fourth, this complaint informs Defendants about the patent-in-suit. Fifth, Defendants have cited related applications to the patent-in-suit during prosecution of their own patents. For example, Altria cited the '604 Patent's parent, U.S. Patent No. 8,897,628 (which has the same specification and corresponds to the patent-in-suit) during the prosecution of at least U.S. Patents Nos. 10,729,177, 10,518,243, 10,433,580, 10,433,585, 10,426,198, 10,420,374, 10,368,580, 10,368,581, 10,357,060, 10,314,338, 10,264,821, D847,419, D797,990, D790,122, D782,108, D767,820, and D767,822, European Patent Application Nos. 3,048,911 and 3,659,451, and Canadian Patent No. 161,693.
- 201. Upon information and belief, having knowledge of the patent-in-suit, Defendants were aware that the purchase and use of the accused products, and components of the accused products, by Defendants' customers results in direct infringement of the patent-in-suit by those customers when used as intended, as designed, and as instructed by Defendants.
- 202. Defendants instructed users on how to use the MarkTen XL, Green Smoke, and MarkTen Elite products and components of the same. (*See* Ex. L, MarkTen XL Product Information Guide, Ex. M, Green Smoke E-Vapor Kit User Guide, Ex. N, MarkTen Elite Product Information Guide).

- 203. Defendants instructed users to purchase and use replacement MarkTen XL, Green Smoke, and MarkTen Elite cartridges when they were depleted. (*See* Ex. L, MarkTen XL Product Information Guide ("When your cartridge is almost empty, you will notice a reduction in flavor and vapor. Please replace the cartridge."), Ex. M, Green Smoke E-Vapor Kit User Guide ("When the vapor volume starts to diminish . . . [y]ou can purchase more cartridges either online or in selected retail stores."), Ex. N, MarkTen Elite Product Information Guide ("When your pod is almost empty, you will notice a reduction in flavor and vapor. Please replace the pod.")).
- 204. Furthermore, Defendants instructed users that the MarkTen XL, Green Smoke, and MarkTen Elite power units are only meant for use with MarkTen XL, Green Smoke, and MarkTen Elite cartridges, respectively. (*See* Ex. L, MarkTen XL Product Information Guide ("Use only MarkTen®XL cartridges with your MarkTen®XL device."), Ex. M, Green Smoke E-Vapor Kit User Guide ("Green Smoke® cartridges should only be used with Green Smoke® batteries."), Ex. N, MarkTen Elite Product Information Guide ("Use only MarkTen®ELITE pods with your MarkTen®ELITE device.")).
- 205. The MarkTen XL, Green Smoke, and MarkTen Elite cartridges contributorily infringe the '604 Patent because they meet every element of the asserted claims except those requiring a power source. The MarkTen XL, Green Smoke, and MarkTen Elite cartridges can only be used with their corresponding MarkTen XL, Green Smoke, and MarkTen Elite power units, and the MarkTen XL, Green Smoke, and MarkTen Elite cartridges, when used with their corresponding power units, meet every limitation of the asserted claims. Thus, the MarkTen XL, Green Smoke, and MarkTen Elite cartridges have no substantial non-infringing use and contribute to the direct infringement of the '604 Patent.

- 206. The MarkTen XL, Green Smoke, and MarkTen Elite power units contributorily infringe the '604 Patent because they meet those elements of the asserted claims requiring a power source. The MarkTen XL, Green Smoke, and MarkTen Elite power units can only be used with MarkTen XL, Green Smoke, and MarkTen Elite cartridges, respectively, and the MarkTen XL, Green Smoke, and MarkTen Elite power units when used with the MarkTen XL, Green Smoke, and MarkTen Elite cartridges meet every limitation of the asserted claims. Thus, the MarkTen XL, Green Smoke, and MarkTen Elite power units have no substantial non-infringing use and contribute to the direct infringement of the '604 Patent.
- 207. As such, Defendants know that the MarkTen XL, Green Smoke, and MarkTen Elite products and components of the MarkTen XL, Green Smoke, and MarkTen Elite, including, but not limited to, the MarkTen XL cartridge, the MarkTen XL power unit, the Green Smoke cartridge, the Green Smoke power unit, the MarkTen Elite cartridge, and the MarkTen Elite power unit, when sold separately, have no substantial non-infringing uses other than to provide users with the ability to assemble and use a vaporizing device that directly infringes the '604 Patent, and, therefore, that they are especially made or adapted for use in direct infringement of the '604 Patent.
- 208. The cartridge and battery of the respective accused products are components of a single assembly or parts of a complete machine that together constitute a functional unit. As such, Fuma is entitled to damages for sales of the accused products, whether the cartridge and power units are sold separately or together, either as direct infringement, indirect infringement, or as convoyed sales.
- 209. As a direct and proximate result of the infringing acts of Defendants, Plaintiff has suffered, and is entitled to, monetary damages that adequately compensate Fuma for Defendants'

infringement, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

210. As of July 2017, substantially all products sold by Fuma that embody the '604 patent were marked with the '604 patent number and Fuma has met all requirements of 35 U.S.C. § 287. Fuma's monetary damages are therefore not limited by 35 U.S.C. § 287 during any period after that date.

WILLFUL INFRINGEMENT

- 211. Fuma hereby realleges each allegation set forth in the paragraphs above as though fully set forth herein.
- 212. As set forth above, Defendants, as early as 2017, communicated with Fuma and received information from Fuma regarding the Fuma '604 Patent, and thereafter continued to sell copies of Fuma's e-cigarette without authorization, despite being told that Fuma had patented the device. Additionally, Defendants knew or should have known, through the U.S. Patent Office's repeated citation of Fuma's '604 Patent family in examining Defendants' patent applications, that its MarkTen XL, Green Smoke, and MarkTen Elite products infringed the asserted claims of the '604 Patent.
- 213. In view of Defendants' knowledge of the '604 Patent, Defendants continued to infringe the '604 Patent despite a high probability that their actions constituted infringement of valid claims of the '604 Patent. Thus, Defendants' infringement of the '604 Patent is willful and deliberate. That egregious infringement behavior entitles Plaintiff to increased damages under 35 U.S.C. § 284, and to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C. § 285.

PRAYER FOR RELIEF

WHEREFORE, Fuma prays for the following relief:

- 214. A judgment that Defendants directly and/or indirectly infringed the '604 Patent;
- 215. A permanent injunction preventing Defendants and their respective officers, directors, agents, servants, employees, attorneys, licensees, successors, and assigns, and those in active concert or participation with any of them, from engaging in infringing activities with respect to the patent-in-suit;
 - 216. A ruling that this case is exceptional under 35 U.S.C. § 285;
- 217. A judgment and order requiring Defendants to pay Fuma damages under 35 U.S.C. § 284, as well as treble damages for willful infringement under 35 U.S.C. §285;
- 218. A judgment and order requiring Defendants to pay Fuma's costs of this action (including all disbursements);
- 219. A judgment and order requiring Defendants to pay pre-judgment and postjudgment interest on damages awarded; and
 - 220. Such other and further relief as the Court may deem just and proper.

DEMAND FOR JURY TRIAL

221. Plaintiff Fuma International LLC hereby demands a trial by jury on all issues triable by a jury.

Dated: May 26, 2023 /s/ Brandon M. Jordan

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