

**NON-PROVISIONAL UTILITY PATENT APPLICATION TRANSMITTAL LETTER**

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Transmitted herewith for filing are papers related to the patent application of:

Inventor(s): **Marc Levy, Craig Huck and Steven Semoff**  
For: **FLUID DISPERSION ASSEMBLY**

Enclosed are:

|               |           |                                                                                                                        |
|---------------|-----------|------------------------------------------------------------------------------------------------------------------------|
| <u>XX</u>     | <u>27</u> | pages of specification, including Abstract and claims.                                                                 |
| <u>X</u>      | <u>5</u>  | sheet(s) of drawings.                                                                                                  |
| <u>X</u>      |           | A Declaration and Power of Attorney.                                                                                   |
| <u>X</u>      |           | Application Data Sheet 37 CFR 1.76.                                                                                    |
| <u>X</u>      |           | Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i).                                                                |
| <u>      </u> |           | An assignment of the invention to: _____.                                                                              |
| <u>      </u> |           | Certified copy(s) of the following application(s) the priority of which is hereby<br>claimed under 35 USC §119: _____. |

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**Aroma360 - Exhibit 1043**

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FLUID DISPERSION ASSEMBLY

BACKGROUND OF THE INVENTION

Field of the Invention

This invention relates generally to the field of dispersion of various fluids including, but not limited to, fragrant oils, essential oils, odor neutralizers, disinfectants, e.g., triethylene glycol, air sanitizers, and the like, into a generally enclosed airspace.

DESCRIPTION OF THE RELATED ART

There are various devices that can be used to deliver fragrant oils, essential oils, as well as other fluids into the air. Spray cans are commonly used, however, such devices require a user to repeatedly and manually spray when and where necessary. Plug-in devices that heat oils for dispersion into the air are also commonly used, but they require constant heating of the oil via an electrical outlet, which consumes energy and poses a potential fire hazard.

Fluid diffusion devices utilizing forced and/or compressed air for delivery of fragrant oils, essential oils, or other liquids are desirable alternatives to spray cans and plug-in devices since they do not require heating or constant user interaction, however, they have drawbacks as well. One drawback of many known fluid diffusion devices utilizing forced air is that they tend to make an

1 undesirable and often, depending on the location, such as an office  
2 of other place of business, a disruptive amount of noise when in  
3 operation. In particular, the release of a fluid dispersed in the  
4 forced and/or compressed air from such a device is often  
5 unacceptably noisy.

6 As such, there is a need for a fluid dispersion assembly that  
7 is designed to significantly reduce the amount of noise generated  
8 during operation. A further need exists for such a fluid dispersion  
9 assembly to not only operate more quietly, but to operate quietly  
10 while generating a fluid dispersion in air having a uniform  
11 particle size distribution, such that dosing of an airspace with a  
12 particular liquid, whether it be oil, sanitizer, disinfectant,  
13 etc., can be predicted within acceptable limits.

#### 14 15 SUMMARY OF THE INVENTION

16 The present invention addresses the need for a forced air  
17 diffusion and dispersion assembly for fluids such as fragrant oils,  
18 essential oils, odor neutralizers, disinfectants, air sanitizers,  
19 etc., that significantly reduces the amount of noise generated  
20 during operation. In at least one embodiment, the present invention  
21 is directed to a fluid dispersion assembly which operatively  
22 engages a fluid container, and is powered by a compressed air  
23 source. The fluid dispersion assembly includes a diffusion unit  
24 having oppositely disposed ends, which at least partially defines a  
25 diffusion chamber. The diffusion chamber is structured so as to

1 facilitate formation of a fluid dispersion comprising a plurality  
2 of substantially uniform droplets prior to discharge from the  
3 diffusion chamber.

4 In at least one embodiment, a cap is cooperatively configured  
5 in sealing engagement with one of the oppositely disposed ends of  
6 the diffusion unit. Furthermore, the cap may be removably attached  
7 to the diffusion unit. The cap includes a discharge port disposed  
8 in communication with the diffusion chamber such that the fluid  
9 dispersion can exit the diffusion chamber and into an airspace  
10 surrounding the fluid dispersion assembly, while the assembly is in  
11 use. In some embodiments, the cap may include a service access port  
12 disposed therethrough. The service access port may also include a  
13 service access plug removably disposed therein, wherein removal of  
14 the service access plug allows for removal, repair, and/or cleaning  
15 of the internal components of the fluid dispersion assembly.

16 The present fluid dispersion assembly, in at least one  
17 embodiment, further includes a container interconnect affixed to a  
18 different one of the oppositely disposed ends of the diffusion unit  
19 which is cooperatively structured to interconnect the diffusion  
20 unit to the fluid container in a substantially sealed relationship.  
21 In at least one embodiment, a sealing washer is provided to  
22 facilitate formation of the substantially sealed relationship, and  
23 a drip tube is disposed in an interconnecting relation between the  
24 diffusion chamber and the fluid container, in at least one further  
25 embodiment, to protect the sealing washer from contact with the

1 operative fluid(s).

2 In one embodiment, a diffusion assembly is disposed in an  
3 operative engagement with the diffusion unit via a cartridge port.  
4 The diffusion assembly is removably engaged with the cartridge  
5 port, in at least one embodiment. In some embodiments, the  
6 cartridge port is disposed directly through the diffusion unit  
7 between the oppositely disposed ends. The cartridge port may be  
8 oriented on the diffusion unit such that the diffusion assembly is  
9 at a substantially perpendicular orientation to the diffusion unit  
10 upon engagement therewith. In at least one other embodiment, a  
11 cartridge port is disposed through the cap. The diffusion assembly  
12 comprises an atomizer assembly, which in one embodiment comprises  
13 an inlet channel, a mixing chamber, and an atomizer exhaust  
14 channel, wherein the inlet channel is interconnected to the  
15 compressed air source and the mixing chamber comprises a fluid  
16 inlet disposed in fluid communication with the fluid in the fluid  
17 container. Compressed air and fluid are initially mixed together in  
18 the mixing chamber to form a fluid dispersion.

19 These and other objects, features and advantages of the  
20 present invention will become clearer when the drawings as well as  
21 the detailed description are taken into consideration.

## 22 23 BRIEF DESCRIPTION OF THE DRAWINGS

24 For a fuller understanding of the nature of the present  
25 invention, reference should be had to the following detailed

1 description taken in connection with the accompanying drawings in  
2 which:

3       Figure 1 is a cross-sectional elevation illustrative of one  
4 embodiment of a fluid dispersion assembly as disclosed in the  
5 present specification.

6       Figure 2 is a cross-sectional elevation illustrative of  
7 another embodiment of a fluid dispersion assembly as disclosed in  
8 the present specification.

9       Figure 3 is a cross-sectional view illustrative of yet another  
10 embodiment of a fluid dispersion assembly as disclosed in the  
11 present specification.

12       Figure 4 is a plan view illustrative of an embodiment of a  
13 fluid dispersion assembly as disclosed in the present invention.

14       Figure 5 is a cross-sectional elevation illustrative of one  
15 further embodiment of a fluid dispersion assembly in accordance  
16 with the present specification.

17       Like reference numerals refer to like parts throughout the  
18 several views of the drawings.

19  
20 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

21       As illustrated in the accompanying figures, and with initial  
22 reference to Figures 1 and 2, the present invention is directed to  
23 a fluid dispersion assembly, generally indicated as 10, powered by  
24 a compressed air source. In at least one embodiment, the fluid  
25 dispersion assembly 10 is further structured to operatively engage

1 a fluid container (FC). The fluid dispersion assembly 10 is  
2 structured to combine an amount of an operative fluid with  
3 compressed air to generate a fluid dispersion.

4 More in particular, a "fluid dispersion" in accordance with  
5 the present specification shall mean a mixture of an operative  
6 fluid in air comprising a plurality of substantially uniform  
7 droplets of the operative fluid dispersed throughout the air.  
8 Further, and once again, as used in the present specification,  
9 "substantially uniform droplets" shall mean droplets having  
10 substantially the same diameter. In at least one embodiment, the  
11 plurality of "substantially uniform droplets" each have a diameter  
12 in the range of about one micron (1  $\mu\text{m}$ ), in another embodiment, the  
13 diameter of the droplets is in the range of about three microns (3  
14  $\mu\text{m}$ ), and, in one further embodiment, droplet diameter is in the  
15 range of about five microns (5  $\mu\text{m}$ ).

16 The fluid dispersion assembly 10 includes a diffusion unit 100  
17 having oppositely disposed ends, as at 110 and 113, in at least one  
18 embodiment. The diffusion unit 100 at least partially defines a  
19 diffusion chamber 112, and in at least one embodiment, the  
20 diffusion chamber 112 is substantially enclosed within diffusion  
21 unit 100. The diffusion unit 100 may be constructed of any rigid  
22 material or materials which are chemically inert, or at least  
23 chemically resistant to the intended operative fluid(s) which  
24 include, but once again are not limited to, fragrant oils,  
25 essential oils, essential oil extracts, odor neutralizers,

1 disinfectants, e.g., triethylene glycol, air sanitizers, etc.  
2 Further, the material of construction selected for the diffusion  
3 unit 100 must be capable of withstanding compressed air at  
4 operative pressures, which may range anywhere from about 5 to 50  
5 psig, in most embodiments of the present fluid dispersion assembly  
6 10. In one lower pressure embodiment, the operating pressure of the  
7 present fluid dispersion assembly 10 is in the range of about 5 to  
8 10 psig, and in one further embodiment, the operating pressure is  
9 in a range of between about 5 to 7 psig. Conversely, a higher  
10 pressure embodiment of the present fluid dispersion assembly 10  
11 operates at pressures in the range of about 20 to 25 psig, and in  
12 the range of between about 23 to 24 psig in yet one further  
13 embodiment. As such, the material or materials of construction of a  
14 diffusion unit 100 in accordance with the present specification may  
15 include metals, engineered plastic materials, e.g., polyvinyl  
16 chloride, high-density polyethylene, etc., and/or composite  
17 materials, just to name a few.

18 In one embodiment, a cap 130 is cooperatively configured and  
19 disposed in a sealing engagement with one of the oppositely  
20 disposed ends 110, 113 of the diffusion unit 100. The cap 130  
21 includes a discharge port 132 therethrough in communication with  
22 the diffusion chamber 112, and provides a point of release of the  
23 fluid dispersion from the diffusion chamber 112 into the airspace  
24 surrounding the fluid dispersion assembly 10. In at least one  
25 embodiment, the cap 130 is removably attached in a sealing

1 engagement to the diffusion unit 100. Figure 4 is a plan view of  
2 the embodiment of the fluid dispersion assembly 10 as shown in  
3 Figures 1 and 2, and shows the cap 130 having a discharge port 132  
4 disposed therethrough. As shown in the embodiment of Figure 3, the  
5 cap 130 may include a service access port 160 disposed  
6 therethrough. The service access port 160 includes a service access  
7 plug 162 removably disposed therein, wherein removal of the service  
8 access plug 162 allows access for removal and cleaning or repair of  
9 a diffusion assembly 200, as disclosed in greater detail below.

10 The fluid dispersion assembly 10, in at least one embodiment,  
11 includes a container interconnect 140 which is cooperatively  
12 structured to interconnect the diffusion unit 100 to the fluid  
13 container (FC) in a substantially sealed relationship. In one  
14 embodiment, the container interconnect 140 is disposed at a  
15 different one of the oppositely disposed ends 110, 113, opposite of  
16 cap 130 of the diffusion unit 100. A sealing washer 170 is disposed  
17 between the diffusion unit 100 and the fluid container (FC), in at  
18 least one embodiment, so as to provide a substantially sealed  
19 relationship between the diffusion unit 100 and the fluid container  
20 (FC). The sealing washer 170 may be constructed from any of a  
21 variety of materials such as, but not limited to, rubber, nylon,  
22 plastic, PVC, TEFLON, or a composite material, once again, provided  
23 the material of construction is chemically inert or at least  
24 chemically resistant to the operative fluid(s).

25 In one further embodiment of a fluid dispersion assembly 10 in

1 accordance with the present specification, a drip tube 120 is  
2 disposed in an interconnecting relation between the diffusion unit  
3 100 and the fluid container (FC). As shown in the Figures 1 and 2,  
4 the drip tube 120 is disposed through a sealing washer 170, and  
5 thus, the drip tube 120 serves to minimize contact between the  
6 sealing washer 170 and the operative fluid, by essentially  
7 preventing the operative fluid from making contact in and around  
8 the sealing washer 170 disposed between the fluid container (FC)  
9 and the container interconnect 140. More in particular, the drip  
10 tube 120 channels any operative fluid which may agglomerate and/or  
11 accumulate in the diffusion chamber 112 through the drip tube 120  
12 directly back into the fluid container (FC) without contacting the  
13 sealing washer 170, once again, as shown in Figures 1 and 2.

14 The container interconnect 140 may be structured in a variety  
15 of ways to allow interconnection to the fluid container (FC). As  
16 one example, the container interconnect 140 may be threaded,  
17 internally or externally, such that the diffusion unit 100 is  
18 interconnected to the fluid container (FC) by screwing the  
19 container interconnect 140 into place onto corresponding threads on  
20 the neck of the fluid container (FC). In at least one other  
21 embodiment, the container interconnect 140 comprises one portion of  
22 a quick-connect type fitting and the fluid container (FC) comprises  
23 a complimentary portion of such a quick-connect type fitting  
24 whereby once operatively engaged, a substantially sealed  
25 relationship is created between the diffusion unit 100 and the

1 fluid container (FC). In at least some embodiments, the  
2 substantially sealed relationship is further enhanced by a sealing  
3 washer 170, as disclosed above.

4 In at least one embodiment, a cartridge port 150 is provided  
5 into the diffusion chamber 112 to facilitate operative engagement  
6 of a diffusion assembly 200 with the diffusion chamber 112. The  
7 diffusion assembly 200 may be removably engaged with the cartridge  
8 port 150 to aid in removal and replacement and/or cleaning of the  
9 diffusion assembly 200 and/or components thereof. In some  
10 embodiments, the cartridge port 150 is disposed directly through  
11 the diffusion unit 100 and into the diffusion chamber 112, and is  
12 positioned between the oppositely disposed ends 110, 113. In at  
13 least one embodiment, the cartridge port 150 is disposed on the  
14 diffusion unit 100 such that the diffusion assembly 200 is disposed  
15 in a substantially perpendicular orientation relative to the  
16 diffusion unit 100 when operatively engaging the cartridge port  
17 150, such as is shown in the illustrative embodiment of Figure 1.  
18 The diffusion assembly 200 is also shown disposed substantially  
19 perpendicular to the diffusion unit 100 in the plan view of Figure  
20 4. In at least one other embodiment, the cartridge port 150 is  
21 disposed through the cap 130. In yet another embodiment, the  
22 diffusion assembly 200 comprises an integral component of the cap  
23 130 itself, such as in the embodiment of Figure 3.

24 As illustrated in Figures 1 and 3, the diffusion assembly 200  
25 comprises an air inlet 210 and an atomizer assembly 220. The

1 atomizer assembly 220 comprises an atomizer air inlet channel 222,  
2 a mixing chamber 226, and an atomizer exhaust channel 228. The  
3 atomizer air inlet channel 222 is interconnected to the compressed  
4 air source via the air inlet 210. Moreover, the atomizer air inlet  
5 channel 222 may also include an inlet aperture 223, a first portion  
6 224 and a second portion 225. The first portion 224 and the second  
7 portion 225 are collectively structured to facilitate delivery of  
8 compressed air into the mixing chamber 226. The first portion 224  
9 of the atomizer air inlet channel 222 may comprise a larger  
10 diameter than the second portion 225, such as is shown in the  
11 illustrative embodiment of Figure 1. Of course, it is within the  
12 scope and intent of the present invention for the atomizer air  
13 inlet channel 222 to comprise a constant diameter along its entire  
14 length, i.e., a diameter of a first portion is substantially equal  
15 to a diameter of a second portion.

16 Further, the mixing chamber 226 comprises a fluid inlet 227  
17 disposed in fluid communication with an operative fluid in the  
18 fluid container (FC) via a fluid delivery tube 300. The fluid  
19 delivery tube 300 is disposed in a fluid communicating relation  
20 between the atomizer assembly 220 and the fluid container (FC) to  
21 facilitate delivery of an amount of the operative fluid into the  
22 atomizer assembly 220. In at least one embodiment, the fluid  
23 delivery tube 300 connects to the atomizer assembly 220 via the  
24 fluid inlet 227 into the mixing chamber 226.

25 As shown in Figures 1 and 2, the fluid inlet 227 is

1 substantially perpendicular to a compressed air flowpath through  
2 the atomizer assembly 200. More in particular, and with reference  
3 to Figure 1, the compressed air flowpath extends horizontally  
4 through the air inlet 210, atomizer air inlet channel 222, mixing  
5 chamber 226, and out through the atomizer exhaust 228.

6 As such, when compressed air is supplied to the diffusion  
7 assembly 200, a corresponding amount of operative fluid is drawn  
8 into the mixing chamber 226 through the fluid delivery tube 300 as  
9 a result of the venturi effect of the compressed air flowing past  
10 the opening of the fluid inlet 227 into the mixing chamber 226.  
11 More in particular, at each different compressed air flowrate,  
12 i.e., each "predetermined amount" of compressed air which is  
13 dictated and fixed by a compressed air operating pressure supplied  
14 to diffusion assembly 200, a different corresponding and  
15 substantially constant amount, i.e., a "preselected amount" of an  
16 operative fluid corresponding to each different predetermined  
17 amount of compressed air, will be drawn into the mixing chamber  
18 226. More importantly, the "predetermined amount" of compressed air  
19 and the "preselected amount" of the operable fluid are initially  
20 mixed together in the mixing chamber 226 to form a fluid  
21 dispersion. The diffusion chamber 112 is further structured to  
22 facilitate the formation of a plurality of substantially uniform  
23 droplets, as defined herein, in the fluid dispersion prior to  
24 discharge from the diffusion chamber 112 through discharge port  
25 132.

1       As illustrated in Figures 1 and 3, the fluid dispersion  
2 assembly 10 also includes a suppressor assembly 230 disposed in  
3 communication with the diffusion assembly 200. The suppressor  
4 assembly 230 comprises a suppression chamber 232, disposed in a  
5 communicating relation with the atomizer exhaust channel 228 of the  
6 atomizer assembly 220. More in particular, the suppression chamber  
7 232 receives the fluid dispersion from the mixing chamber 226. The  
8 suppressor assembly 230 helps to suppress the noise generated  
9 during operation of the fluid dispersion assembly 10 as it disrupts  
10 the path of flow of the fluid dispersion out of the atomizer  
11 assembly 200 and into diffusion chamber 112, and therefore,  
12 disrupts and dampens the sound waves associated therewith. Further,  
13 the walls of the suppressor assembly 230 itself serve to absorb and  
14 dampen the sound waves generated by the flow of the fluid  
15 dispersion out of the mixing chamber 236 through atomizer exhaust  
16 channel 238.

17       The suppressor assembly 230 may also include a suppressor  
18 discharge port 234 to facilitate transfer of the fluid dispersion  
19 from the suppressor chamber 232 into the diffusion chamber 112. In  
20 at least one embodiment, such as is shown in Figure 1, the  
21 suppressor discharge port 234 is located through a low point in the  
22 suppressor chamber 232. Of course, as shown in the alternative  
23 embodiment of Figure 2, the suppressor discharge port 234 is  
24 located through the sides of the suppressor chamber 232.

25       Figure 5 is illustrative of an alternative embodiment of a

1 fluid dispersion assembly 10, wherein a modified diffusion chamber  
2 112' is configured to suppress and/or dampen sound waves generated  
3 during operation, similar to the suppressor assembly 230 disclosed  
4 above. However, as will be appreciated from the following  
5 disclosure, the diffusion chamber 112' of the embodiment of Figure  
6 5 serves to suppress sound waves generated during operation without  
7 the need for a separate suppression chamber, as in previously  
8 disclosed embodiments.

9 Before addressing the modified diffusion chamber 112' of the  
10 embodiment of Figure 5, it is noted that, in many respects, the  
11 fluid dispersion assembly 10 of Figure 5 is similar to the  
12 previously disclosed embodiments herein. To begin, the fluid  
13 dispersion assembly 10 of Figure 5 comprises a diffusion unit 100  
14 having oppositely disposed ends 110, 113, and a diffusion chamber  
15 112' disposed therebetween. Unlike previously disclosed  
16 embodiments, however, the fluid dispersion assembly 10 of Figure 5  
17 includes a service access port 160 having a removable service  
18 access plug 162 disposed directly through one end 113 of the  
19 diffusion unit 100, rather than through a separate cap disposed at  
20 one end of the unit 100.

21 The fluid dispersion assembly 10 of Figure 5 further comprises  
22 a container interconnect 140 cooperatively structured to  
23 interconnect the diffusion unit 100 to a fluid container (FC) in a  
24 substantially sealed relationship and, as before, a sealing washer  
25 170 is provided to maintain a substantially sealed relationship.

1       A cartridge port 150 is disposed through one side of the  
2 diffusion unit 100, in the illustrative embodiment of Figure 5, and  
3 a diffusion assembly 200 is operatively positioned therethrough and  
4 into fluid communication with diffusion chamber 112', as in  
5 previously disclosed embodiments. The diffusion cartridge 200  
6 includes an air inlet 210 disposed in communication with an  
7 atomizer assembly 220. Further, and as in previously disclosed  
8 embodiments, when compressed air is supplied to the diffusion  
9 assembly 200, and more in particular, atomizer assembly 220,  
10 through air inlet 210, a corresponding amount of fluid is drawn  
11 into a mixing chamber 226 from the fluid container (FC) through a  
12 fluid delivery tube 300, as a result of the venturi effect of  
13 compressed air flowing past the opening of a fluid inlet 227 into  
14 the mixing chamber 226. As a result, a fluid dispersion is formed  
15 and discharged from the atomizer assembly 220 through atomizer  
16 exhaust channel 228, and directly into diffusion chamber 112'.

17       As noted above, and as may be seen with reference to Figure 5,  
18 the diffusion chamber 112' of the present embodiment comprises a  
19 modified configuration. Specifically, the modified diffusion  
20 chamber 112' comprises an upside down L-shaped configuration,  
21 wherein a first axial portion 114 of the diffusion chamber 112' is  
22 disposed in a substantially axial orientation adjacent and relative  
23 to the discharge of the atomizer exhaust channel 228. A second  
24 transverse portion 115 of the diffusion chamber 112' is disposed in  
25 a substantially downwardly directed orientation, as shown in Figure

1 5, substantially transverse or perpendicular to the direction of  
2 flow from atomizer exhaust channel 228.

3 The second or transverse portion 115 of the modified diffusion  
4 chamber 112', in at least one embodiment, comprises a fluid return  
5 lip 116 disposed at a lower end thereof in a surrounding relation  
6 to incoming fluid delivery tube 300. The fluid return lip 116, in  
7 at least one embodiment, extends downwardly and outwardly from the  
8 walls of the second portion 115 of the diffusion chamber 112', such  
9 that any liquid which coalesces in the diffusion chamber 112' along  
10 the walls thereof, will be directed into drip tube 120, disposed in  
11 an abutting relation along the underside of the fluid return lip  
12 116, and back into fluid container (FC).

13 More importantly, the fluid dispersion discharged from the  
14 atomizer assembly 220 through atomizer exhaust channel 228 into  
15 diffusion chamber 112' is interrupted and redirected by virtue of  
16 axial portion 114 and transverse portion 115 therein. The  
17 interruption and redirection of flow in the modified diffusion  
18 chamber 112' during operation of the fluid dispersion assembly 10  
19 in accordance with the present embodiment, serves to suppress or  
20 dampen sound waves generated therein, in a similar manner as the  
21 suppression chamber 232 of previously disclosed embodiments.  
22 Further, the restricted discharge from the transverse portion 115  
23 of the modified diffusion chamber 112' may serve to further  
24 suppress or dampen sound waves, thus reducing the noise generated  
25 during operation to an even greater extent.

1       After being discharged from the diffusion chamber 112', the  
2 fluid dispersion enters the freeboard above the liquid in the fluid  
3 container (FC), the freeboard serving as a quasi-diffusion chamber  
4 prior to final discharge of the fluid dispersion from the diffusion  
5 unit 100. A discharge chamber 117 is disposed in fluid  
6 communication with the freeboard of the fluid container (FC), such  
7 that the fluid dispersion can pass therethrough, into a discharge  
8 head 118 and out through discharge channel 119 into the airspace  
9 surrounding the fluid dispersion assembly 10, as shown in the  
10 illustrative embodiment of Figure 5.

11       In at least one embodiment, a fluid dispersion assembly 10 in  
12 accordance with the present specification further includes a  
13 silencer assembly 134 in communication with the discharge port 132,  
14 such as is illustrated in Figures 1 and 2. The silencer assembly  
15 134 serves to further minimize the amount of noise generated during  
16 operation of the fluid dispersion assembly 10. The silencer  
17 assembly 134 comprises a baffle 136 disposed in a silencer chamber  
18 138 between a silencer inlet 135 and a silencer outlet 137. The  
19 baffle 136 is structured and disposed to further disrupt the flow  
20 of the fluid dispersion through the fluid dispersion assembly 10,  
21 and more specifically, through the silencer chamber 138. In at  
22 least one embodiment, the silencer inlet 135 is disposed relative  
23 to the baffle 136 to at least partially, if not substantially,  
24 direct the flow of the fluid dispersion towards the baffle 136, so  
25 as to maximize the disruption of flow. Once again, as disclosed

1 above with regard to the suppressor assembly 230, the disruption in  
2 the flow of the fluid dispersion through the silencer assembly 134  
3 also creates a disruption and dampening of the sound waves  
4 associated therewith. As a result, the amount of noise generated  
5 during the operation of a fluid dispersion assembly 10 in  
6 accordance with the present specification is significantly reduced.

7 It is further envisioned that at least one embodiment of the  
8 fluid dispersion assembly 10 of the present invention is operated  
9 via a programmable timer to control a fragrance intensity and  
10 character in an airspace by metering the fragrance delivered in an  
11 enclosed environment. The fluid dispersion assembly 10 delivers a  
12 specific amount of a fragrance, i.e., the delivery rate, based upon  
13 such factors as the specific physical configuration of the atomizer  
14 assembly 220 and the fluid container (FC) / fluid delivery tube  
15 300, the pressure and volume of the compressed air supplied into  
16 air inlet 210, as well as the physical properties of the fragrance  
17 itself, such as, viscosity, surface tension, vapor pressure, etc.,  
18 wherein the delivery rate is measured in grams per minute of a  
19 fragrance dispersed. The perceived fragrance intensity in a  
20 specific airspace is measured from a sensory point of view using a  
21 labeled magnitude scale. The data is directly correlated to the  
22 amount of fragrance delivered and may be measured in either grams  
23 per liter or grams per cubic meter. Since the delivery rate is  
24 fixed, fragrance intensity is controlled by cycling the fluid  
25 dispersion assembly 10 through an on/off programming cycle every

1 minute to deliver the intensity and character levels that are  
2 desired by a user. The optimization process is a function of dosing  
3 time per minute and a user's desired fragrance experience.

4       Since many modifications, variations and changes in detail can  
5 be made to the described preferred embodiment of the invention, it  
6 is intended that all matters in the foregoing description and shown  
7 in the accompanying drawings be interpreted as illustrative and not  
8 in a limiting sense. Thus, the scope of the invention should be  
9 determined by the appended claims and their legal equivalents.

10       Now that the invention has been described,

1 What is claimed is:

2 1. A fluid dispersion assembly operatively engages a container of  
3 an operative fluid and a compressed air source and generates and  
4 discharges a fluid dispersion into a surrounding airspace, said  
5 fluid dispersion assembly comprising:

6 a diffusion unit at least partially defining an enclosed  
7 diffusion chamber,

8 a service access port at least partially defining an access  
9 opening into said diffusion unit, and a service access plug  
10 removably disposable in a sealing engagement with said service  
11 access port,

12 a discharge port disposed in fluid communication between said  
13 diffusion chamber and the surrounding airspace,

14 a diffusion assembly disposed in an operative engagement with  
15 said diffusion unit, wherein said diffusion assembly comprises an  
16 atomizer assembly,

17 said atomizer assembly comprising an atomizer air inlet  
18 channel, a fluid inlet, a mixing chamber, and an atomizer exhaust  
19 channel,

20 said atomizer air inlet channel interconnected to the  
21 compressed air source and said fluid inlet disposed in fluid  
22 communication with the operative fluid in the container, wherein  
23 the compressed air and the operative fluid are mixed together in  
24 said mixing chamber to form the fluid dispersion, and

25 a suppressor assembly disposed in communication with said

1 diffusion assembly, said suppressor assembly comprising a  
2 suppression chamber structured to dampen sound waves generated  
3 during operation of said fluid dispersion assembly.

4 2. The fluid dispersion assembly as recited in claim 1 further  
5 comprising a cap cooperatively configured and disposed in a sealing  
6 engagement with said diffusion unit.

7 3. The fluid dispersion assembly as recited in claim 2 wherein  
8 said service access port is disposed through said cap.

9 4. The fluid dispersion assembly as recited in claim 1 wherein  
10 said atomizer exhaust channel is disposed in a communicating  
11 relation between said mixing chamber and said suppression chamber  
12 to facilitate transfer of the fluid dispersion therebetween.

13 5. The fluid dispersion assembly of claim 1 wherein said  
14 suppressor assembly further comprises a suppressor discharge port  
15 disposed between said suppression chamber and said diffusion  
16 chamber to facilitate transfer of the fluid dispersion from said  
17 suppression chamber into said diffusion chamber.

18 6. The fluid dispersion assembly as recited in claim 1 wherein  
19 said diffusion chamber facilitates formation of the fluid  
20 dispersion prior to discharge of the fluid dispersion from said  
21 diffusion chamber through said discharge port and into the  
22 surrounding airspace.

23 7. A fluid dispersion assembly is operatively interconnected to a  
24 container of an operative fluid and a compressed air source to  
25 generate and discharge a fluid dispersion into a surrounding

1 airspace, said fluid dispersion assembly comprising:

2 a diffusion unit at least partially defining a diffusion  
3 chamber,

4 a discharge port disposed in fluid communication between said  
5 diffusion chamber and the surrounding airspace,

6 a diffusion assembly disposed in an operative engagement with  
7 said diffusion unit, wherein said diffusion assembly comprises an  
8 atomizer assembly, and

9 a silencer assembly having a silencer inlet, a silencer  
10 outlet, and a baffle, wherein said baffle partially restricts  
11 movement of the fluid dispersion through said silencer chamber from  
12 said silencer inlet to said silencer outlet, thereby dampening  
13 sound waves generated during operation of said fluid dispersion  
14 assembly.

15 8. The fluid dispersion assembly as recited in claim 7 wherein  
16 said atomizer assembly comprising an atomizer air inlet channel, a  
17 fluid inlet, a mixing chamber, and an atomizer exhaust channel.

18 9. The fluid dispersion assembly as recited in claim 8 wherein  
19 said atomizer air inlet channel is interconnected to the compressed  
20 air source and said fluid inlet disposed in fluid communication  
21 with the operative fluid in the container, wherein the compressed  
22 air and the operative fluid are mixed together in said mixing  
23 chamber to form the fluid dispersion.

24 10. The fluid dispersion assembly as recited in claim 7 further  
25 comprising a suppressor assembly disposed in communication with

1 said diffusion assembly, said suppressor assembly comprising a  
2 suppression chamber structured to dampen sound waves generated  
3 during operation of said fluid dispersion assembly.

4 11. The fluid dispersion assembly as recited in claim 7 wherein  
5 said diffusion chamber facilitates formation of the fluid  
6 dispersion prior to discharge of the fluid dispersion from said  
7 diffusion chamber through said discharge port and into the  
8 surrounding airspace.

9 12. The fluid dispersion assembly as recited in claim 7 further  
10 comprising a container interconnect operatively interconnecting  
11 said diffusion unit to the container, wherein said container  
12 interconnect comprises a sealing washer disposed between said  
13 diffusion unit and the container.

14 13. The fluid dispersion assembly as recited in claim 12 further  
15 comprising a drip tube, said drip tube disposed in an  
16 interconnecting relation between said diffusion chamber and the  
17 container through said sealing washer, wherein said drip tube  
18 minimizes contact between said sealing washer and the operative  
19 fluid.

20 14. A fluid dispersion assembly interconnects to a container of an  
21 operative fluid and a compressed air source and generates and  
22 discharges a fluid dispersion into a surrounding airspace, said  
23 fluid dispersion assembly comprising:

24 a diffusion unit having an enclosed diffusion chamber, said  
25 diffusion chamber comprising oppositely disposed portions therein,

1 a diffusion assembly disposed in an operative engagement with  
2 said diffusion unit, wherein said diffusion assembly comprises an  
3 atomizer assembly having an atomizer exhaust channel,

4 one of said oppositely disposed portions of said diffusion  
5 chamber comprises an axial portion disposed in an adjacent  
6 substantially axial orientation relative to said atomizer exhaust  
7 channel,

8 another of said oppositely disposed portions of said diffusion  
9 chamber comprises a transverse portion disposed in a spaced apart  
10 substantially perpendicular orientation relative to said atomizer  
11 exhaust channel, and

12 said diffusion chamber structured to facilitate formation of  
13 the fluid dispersion prior to discharge of the fluid dispersion  
14 from said diffusion chamber, wherein the fluid dispersion  
15 discharged from said atomizer exhaust channel into said diffusion  
16 chamber is interrupted and redirected in said axial portion and  
17 said transverse portion, thereby dampening sound waves generated  
18 during operation of said fluid dispersion assembly.

19 15. The fluid dispersion assembly as recited in claim 14 further  
20 comprising a discharge chamber disposed in fluid communication with  
21 said diffusion chamber and a discharge head, said discharge head  
22 comprising a discharge channel disposed to direct the fluid  
23 dispersion from said discharge chamber into the airspace  
24 surrounding said fluid dispersion assembly.

25 16. The fluid dispersion assembly as recited in claim 14 wherein

1 said atomizer assembly further comprises an atomizer air inlet  
2 channel, a fluid inlet, and a mixing chamber.

3 17. The fluid dispersion assembly as recited in claim 16 wherein  
4 said atomizer air inlet channel is interconnected to the compressed  
5 air source and said fluid inlet is disposed in fluid communication  
6 with the preselected fluid in the container, wherein the compressed  
7 air and the preselected fluid are mixed together in said mixing  
8 chamber to form the fluid dispersion.

9 18. A fluid dispersion assembly is interconnected to a container  
10 of an operative fluid and a compressed air source to generate and  
11 discharge a fluid dispersion into a surrounding airspace, said  
12 fluid dispersion assembly comprising:

13 a diffusion unit having a substantially enclosed diffusion  
14 chamber,

15 a diffusion assembly operatively engages said diffusion unit,  
16 wherein said diffusion assembly comprises an atomizer assembly,

17 said diffusion chamber comprising an axial portion disposed in  
18 an axial orientation relative to said atomizer assembly,

19 said diffusion chamber further comprising a transverse portion  
20 disposed in a spaced apart substantially perpendicular orientation  
21 relative to said atomizer assmebly, wherein said transverse portion  
22 comprises a fluid return lip disposed at a lower end thereof and a  
23 drip tube disposed adjacent and abutting said fluid return lip, and

24 a discharge chamber disposed in fluid communication with said  
25 diffusion chamber and a discharge head, said discharge head

1 comprising a discharge channel disposed to direct the fluid  
2 dispersion from said discharge chamber into the surrounding  
3 airspace.

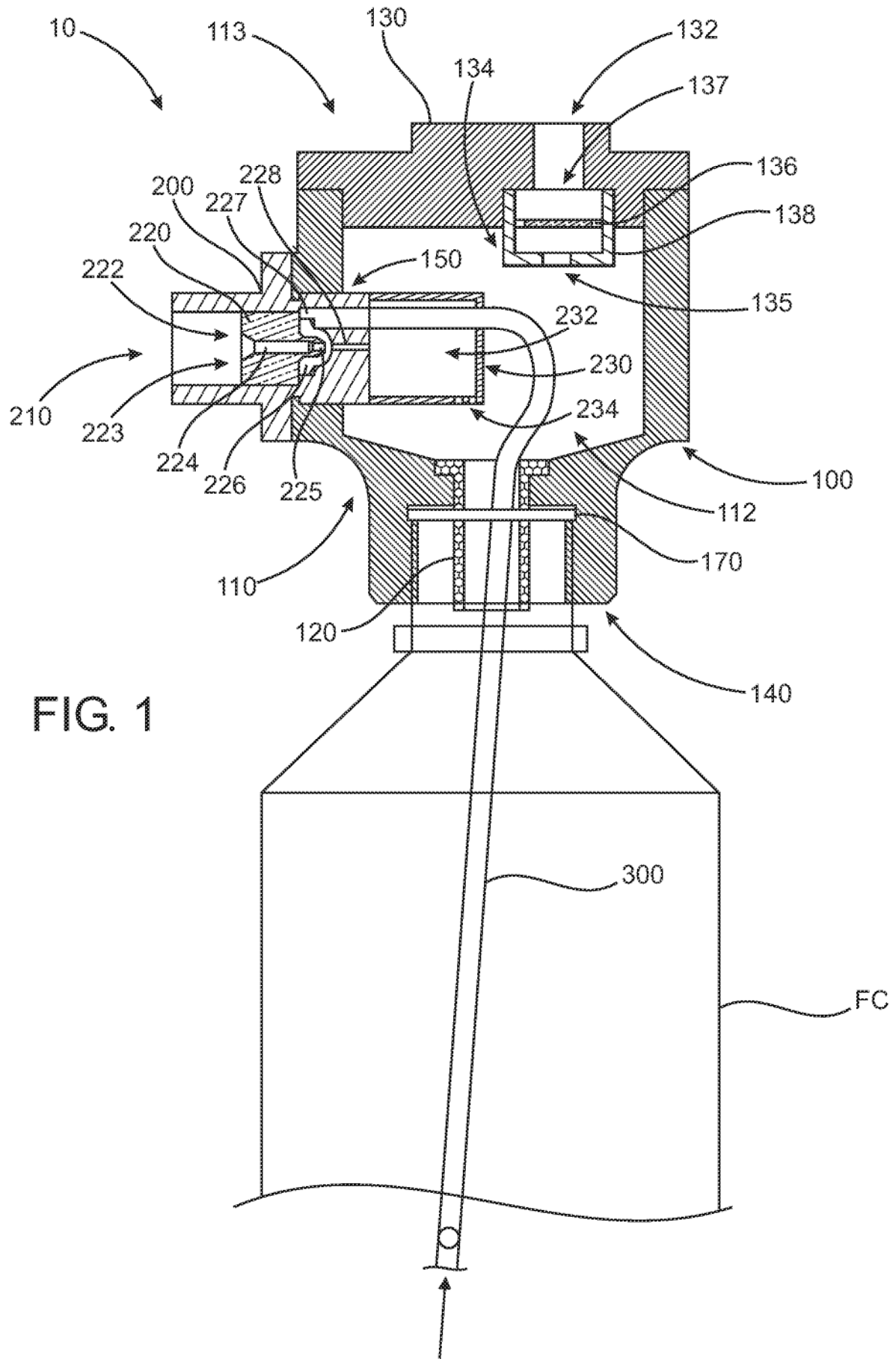
4 19. The assembly as recited in claim 18 wherein said fluid return  
5 lip is disposed to direct coalesced fluid from said diffusion  
6 chamber into said drip tube.

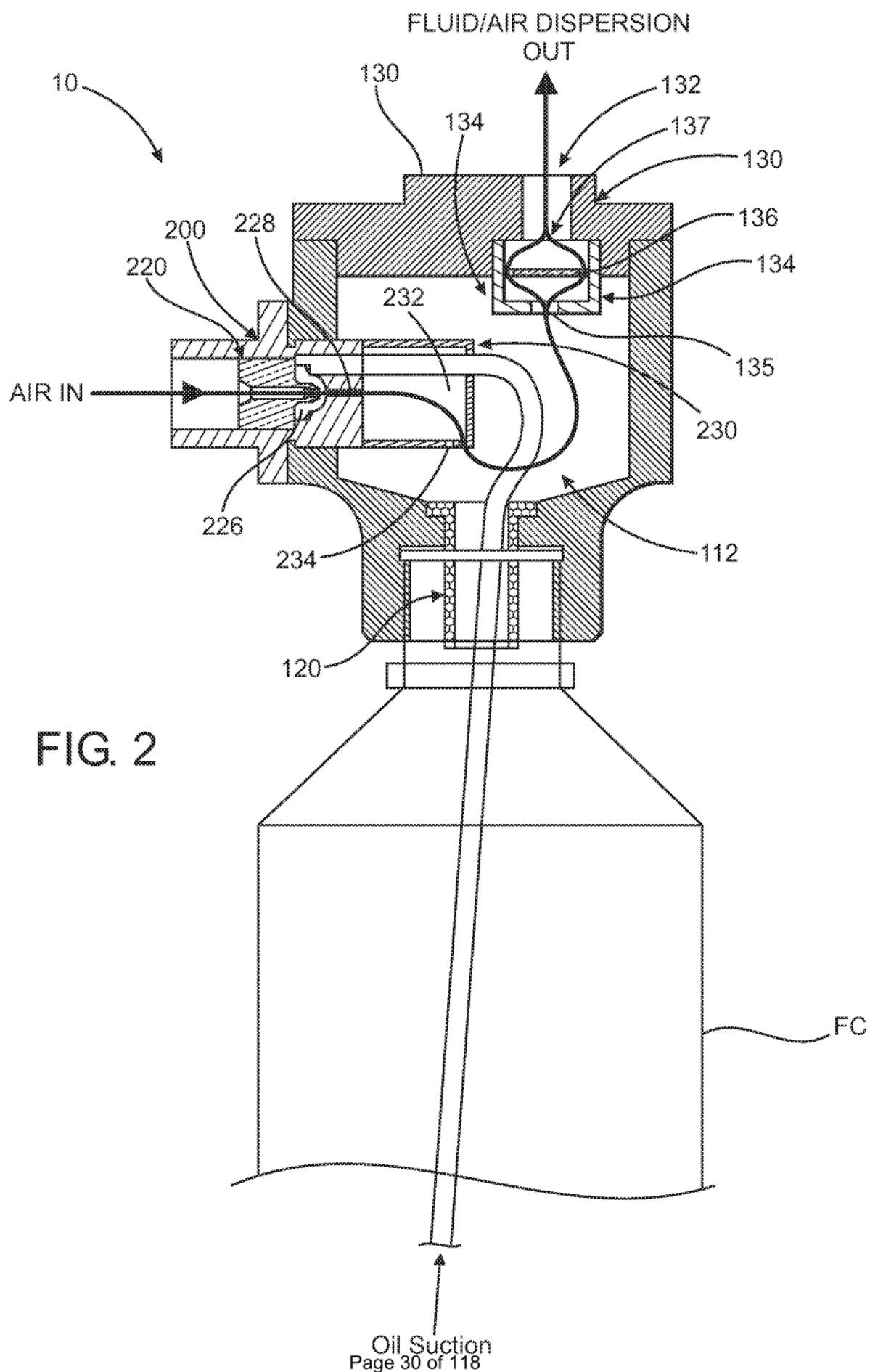
7 20. The assembly as recited in claim 19 wherein said drip tube is  
8 disposed to direct said coalesced fluid into the container.

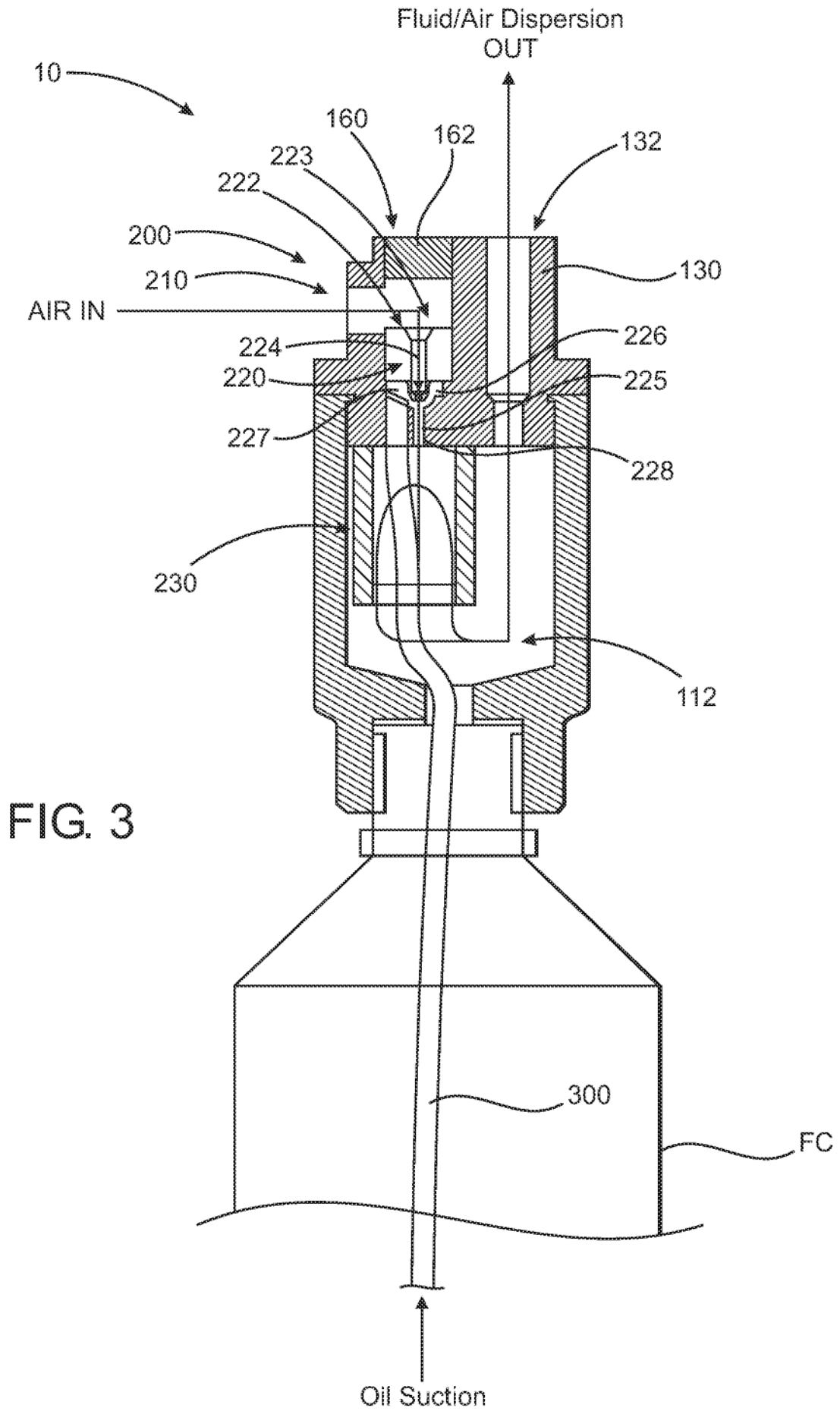
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1                                    ABSTRACT OF THE DISCLOSURE

2            A fluid dispersion assembly comprises a diffusion unit  
3 disposed in fluid communication with a fluid container, the  
4 assembly being powered by a compressed air source. The diffusion  
5 unit at least partially defines a diffusion chamber, and includes a  
6 diffusion assembly containing an atomizer assembly which, in  
7 combination with the diffusion chamber, generates a fluid  
8 dispersion from a mixture of compressed air and an operative fluid,  
9 for example, fragrant oils, essential oils, odor neutralizers,  
10 disinfectants such as triethylene glycol, air sanitizers, etc. The  
11 diffusion unit may include a suppressor assembly and/or a silencer  
12 assembly to reduce the amount of noise generated during operation.  
13 In one alternate embodiment, a modified diffusion chamber is  
14 provided which functions as a suppression chamber, thereby reducing  
15 the noise generated during operation of the assembly.







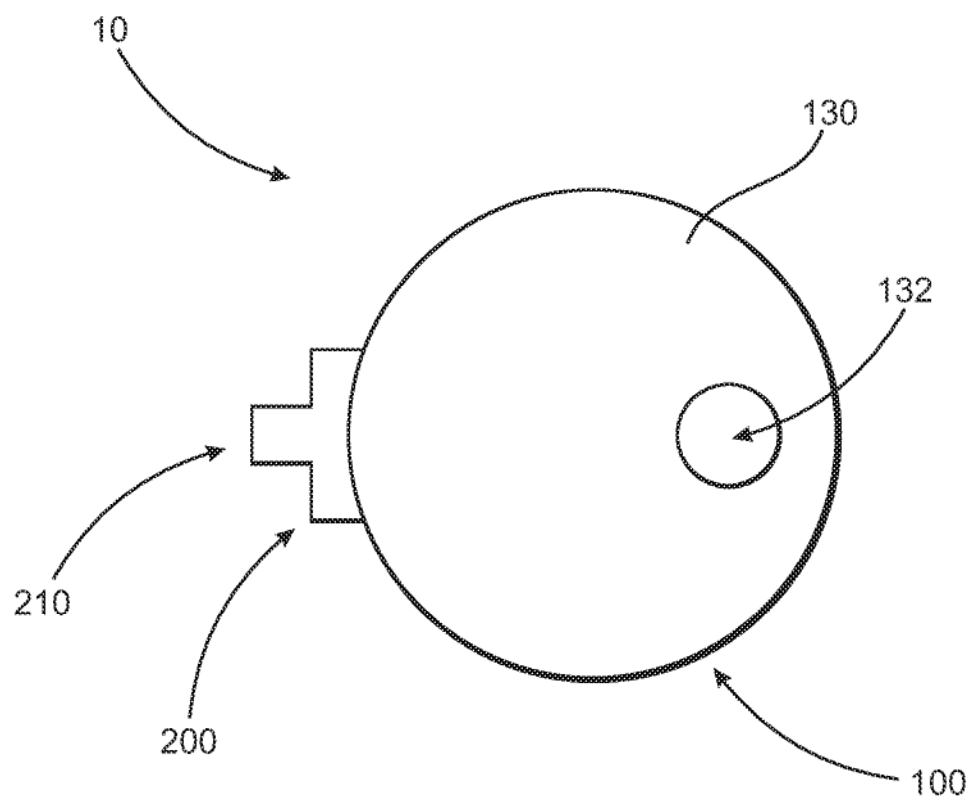


FIG. 4

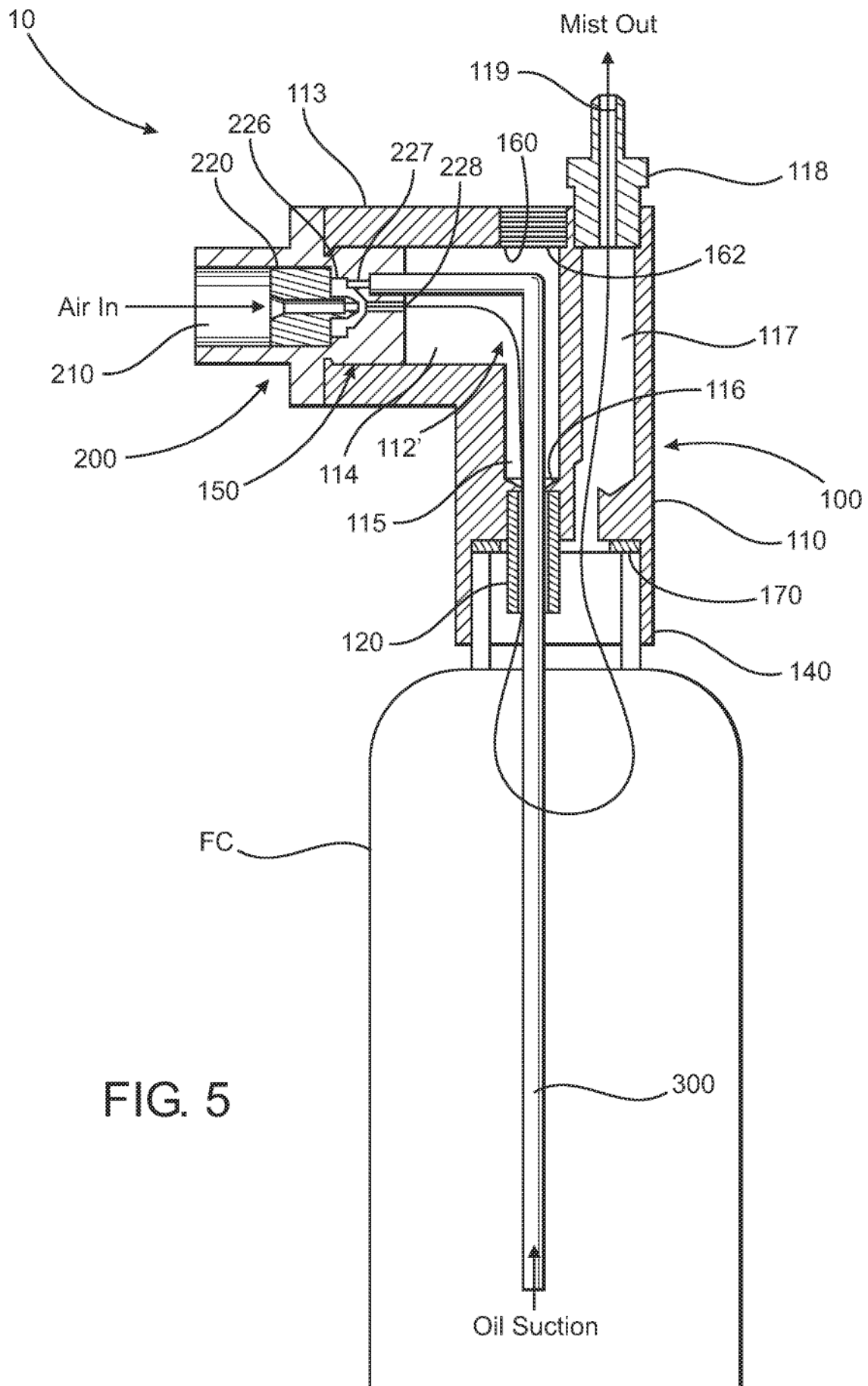


FIG. 5

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DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

TITLE OF INVENTION:

FLUID DISPERSION ASSEMBLY

the application for which

X is attached hereto; or  
was filed on \_\_\_\_\_ and has been assigned  
Application Serial No. \_\_\_\_\_;  
and was amended on and \_\_\_\_\_  
(if applicable)

As a below named inventor or joint inventor, I hereby declare that:

The above-identified application was made or was authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under section 1001 of title 18 by fine or imprisonment of not more than five (5) years, or both.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made of information and belief are believed to be true, and further, and that any willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I hereby acknowledge the duty to disclose all information known to me to be material to the patentability of this invention in accordance with 37 CFR 1.56.

POWER OF ATTORNEY: As a below named inventor or joint inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

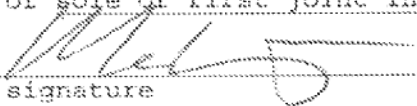
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1.106A.15

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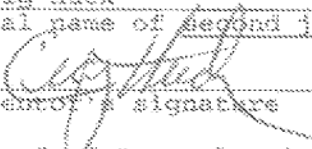
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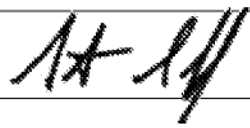
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1.106A.15

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |                        |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|-----------|
| <b>Application Data Sheet 37 CFR 1.76</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           | Attorney Docket Number | 1.106A.15 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           | Application Number     |           |
| Title of Invention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FLUID DISPERSION ASSEMBLY |                        |           |
| <p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.</p> <p>This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p> |                           |                        |           |

## Secrecy Order 37 CFR 5.2

|                          |                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.) |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Inventor Information:

|                                                                                                                                                                          |            |                    |             |                        |        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|-------------|------------------------|--------|--|
| Inventor 1                                                                                                                                                               |            |                    |             |                        | Remove |  |
| Legal Name                                                                                                                                                               |            |                    |             |                        |        |  |
| Prefix                                                                                                                                                                   | Given Name | Middle Name        | Family Name | Suffix                 |        |  |
|                                                                                                                                                                          | Marc       |                    | Levy        |                        |        |  |
| Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |            |                    |             |                        |        |  |
| City                                                                                                                                                                     | Miami      | State/Province     | FL          | Country of Residence i | US     |  |
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| Postal Code                                                                                                                                                              | 33176      | Country i          | US          |                        |        |  |
| Inventor 2                                                                                                                                                               |            |                    |             |                        | Remove |  |
| Legal Name                                                                                                                                                               |            |                    |             |                        |        |  |
| Prefix                                                                                                                                                                   | Given Name | Middle Name        | Family Name | Suffix                 |        |  |
|                                                                                                                                                                          | Craig      |                    | Huck        |                        |        |  |
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| Mailing Address of Inventor:                                                                                                                                             |            |                    |             |                        |        |  |
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| Address 2                                                                                                                                                                |            |                    |             |                        |        |  |
| City                                                                                                                                                                     | Waterford  | State/Province     | PA          |                        |        |  |
| Postal Code                                                                                                                                                              | 16411      | Country i          | US          |                        |        |  |
| Inventor 3                                                                                                                                                               |            |                    |             |                        | Remove |  |
| Legal Name                                                                                                                                                               |            |                    |             |                        |        |  |
| Prefix                                                                                                                                                                   | Given Name | Middle Name        | Family Name | Suffix                 |        |  |
|                                                                                                                                                                          | Steven     |                    | Semoff      |                        |        |  |
| Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service |            |                    |             |                        |        |  |

|                                                                                                                                             |          |                           |    |                        |                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------|----|------------------------|------------------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b>                                                                                                   |          | Attorney Docket Number    |    | 1.106A.15              |                                    |
|                                                                                                                                             |          | Application Number        |    |                        |                                    |
| Title of Invention                                                                                                                          |          | FLUID DISPERSION ASSEMBLY |    |                        |                                    |
| City                                                                                                                                        | New City | State/Province            | NY | Country of Residence i | US                                 |
| <b>Mailing Address of Inventor:</b>                                                                                                         |          |                           |    |                        |                                    |
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| Address 2                                                                                                                                   |          |                           |    |                        |                                    |
| City                                                                                                                                        | New City | State/Province            | NY |                        |                                    |
| Postal Code                                                                                                                                 | 10956    | Country i                 | US |                        |                                    |
| All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the <b>Add</b> button. |          |                           |    |                        | <input type="button" value="Add"/> |

### Correspondence Information:

|                                                                                                                                       |                       |                                          |                                             |
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| Enter either Customer Number or complete the Correspondence Information section below.<br>For further information see 37 CFR 1.33(a). |                       |                                          |                                             |
| <input type="checkbox"/> An Address is being provided for the correspondence Information of this application.                         |                       |                                          |                                             |
| Customer Number                                                                                                                       | 04219                 |                                          |                                             |
| Email Address                                                                                                                         | patents@malloylaw.com | <input type="button" value="Add Email"/> | <input type="button" value="Remove Email"/> |

### Application Information:

|                                         |                           |                                                                 |  |  |   |
|-----------------------------------------|---------------------------|-----------------------------------------------------------------|--|--|---|
| Title of the Invention                  | FLUID DISPERSION ASSEMBLY |                                                                 |  |  |   |
| Attorney Docket Number                  | 1.106A.15                 | Small Entity Status Claimed <input checked="" type="checkbox"/> |  |  |   |
| Application Type                        | Nonprovisional            |                                                                 |  |  |   |
| Subject Matter                          | Utility                   |                                                                 |  |  |   |
| Total Number of Drawing Sheets (if any) | 5                         | Suggested Figure for Publication (if any)                       |  |  | 5 |

### Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

|                                                        |                          |                                              |
|--------------------------------------------------------|--------------------------|----------------------------------------------|
| Application number of the previously filed application | Filing date (YYYY-MM-DD) | Intellectual Property Authority or Country i |
|                                                        |                          |                                              |

### Publication Information:

|                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Request Early Publication (Fee required at time of Request 37 CFR 1.219)                                                                                                                                                                                                                                                                                                                                 |
| <input checked="" type="checkbox"/> <b>Request Not to Publish.</b> I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application <b>has not and will not be</b> the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing. |

|                                           |                           |                        |           |
|-------------------------------------------|---------------------------|------------------------|-----------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                           | Attorney Docket Number | 1.106A.15 |
|                                           |                           | Application Number     |           |
| Title of Invention                        | FLUID DISPERSION ASSEMBLY |                        |           |

## Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

|                    |                                                  |                                              |                                                         |
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| Customer Number    | 04219                                            |                                              |                                                         |

## Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

|                                                                                                                       |                               |                          |                          |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------|--------------------------|
| Prior Application Status                                                                                              | Pending                       | <a href="#">Remove</a>   |                          |
| Application Number                                                                                                    | Continuity Type               | Prior Application Number | Filing Date (YYYY-MM-DD) |
|                                                                                                                       | Continuation of               | 13838364                 | 2013-03-15               |
| Prior Application Status                                                                                              | Expired                       | <a href="#">Remove</a>   |                          |
| Application Number                                                                                                    | Continuity Type               | Prior Application Number | Filing Date (YYYY-MM-DD) |
| 13838364                                                                                                              | Claims benefit of provisional | 61694500                 | 2012-08-29               |
| Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the <b>Add</b> button. |                               |                          | <a href="#">Add</a>      |

## Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

|                                                                                                        |                      |                          |                                          |
|--------------------------------------------------------------------------------------------------------|----------------------|--------------------------|------------------------------------------|
| Application Number                                                                                     | Country <sup>i</sup> | Filing Date (YYYY-MM-DD) | <a href="#">Remove</a>                   |
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|                                           |                           |                        |           |
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| <b>Application Data Sheet 37 CFR 1.76</b> |                           | Attorney Docket Number | 1.106A.15 |
|                                           |                           | Application Number     |           |
| Title of Invention                        | FLUID DISPERSION ASSEMBLY |                        |           |

## Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

- ☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
- NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

## Authorization to Permit Access:

- ☐ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

## Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

|                                           |                           |                        |           |
|-------------------------------------------|---------------------------|------------------------|-----------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                           | Attorney Docket Number | 1.106A.15 |
|                                           |                           | Application Number     |           |
| Title of Invention                        | FLUID DISPERSION ASSEMBLY |                        |           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                                                                |                                                                        |                                      |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|----|
| <b>Applicant 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                                                                |                                                                        | <a href="#">Remove</a>               |    |
| <p>If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.</p> |    |                                                                |                                                                        |                                      |    |
| <a href="#">Clear</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                                                                |                                                                        |                                      |    |
| <input type="radio"/> Assignee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    | <input type="radio"/> Legal Representative under 35 U.S.C. 117 |                                                                        | <input type="radio"/> Joint Inventor |    |
| <input checked="" type="radio"/> Person to whom the inventor is obligated to assign.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                                                                | <input type="radio"/> Person who shows sufficient proprietary interest |                                      |    |
| If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                |                                                                        |                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                                                                |                                                                        |                                      |    |
| Name of the Deceased or Legally Incapacitated Inventor : <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                                                                |                                                                        |                                      |    |
| If the Applicant is an Organization check here. <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                                                                |                                                                        |                                      |    |
| Organization Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | Air Essentials Inc.                                            |                                                                        |                                      |    |
| <b>Mailing Address Information For Applicant:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                |                                                                        |                                      |    |
| Address 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    | 7426 SW 48th Street                                            |                                                                        |                                      |    |
| Address 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                |                                                                        |                                      |    |
| City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    | Miami                                                          | State/Province                                                         |                                      | FL |
| Country <sup>i</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | US | Postal Code                                                    |                                                                        | 33155                                |    |
| Phone Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                | Fax Number                                                             |                                      |    |
| Email Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                                                                |                                                                        |                                      |    |
| Additional Applicant Data may be generated within this form by selecting the Add button. <a href="#">Add</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                |                                                                        |                                      |    |

## Assignee Information including Non-Applicant Assignee Information:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.</p>                                                                                                                                                                                                                                                                    |  |
| <b>Assignee 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <p>Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.</p> |  |
| <a href="#">Remove</a>                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| <p>If the Assignee or Non-Applicant Assignee is an Organization check here. <input type="checkbox"/></p>                                                                                                                                                                                                                                                                                                                                                      |  |

|                                           |                           |                        |           |
|-------------------------------------------|---------------------------|------------------------|-----------|
| <b>Application Data Sheet 37 CFR 1.76</b> |                           | Attorney Docket Number | 1.106A.15 |
|                                           |                           | Application Number     |           |
| Title of Invention                        | FLUID DISPERSION ASSEMBLY |                        |           |

|        |            |             |             |        |
|--------|------------|-------------|-------------|--------|
| Prefix | Given Name | Middle Name | Family Name | Suffix |
|        |            |             |             |        |

**Mailing Address Information For Assignee including Non-Applicant Assignee:**

|               |  |                |  |
|---------------|--|----------------|--|
| Address 1     |  |                |  |
| Address 2     |  |                |  |
| City          |  | State/Province |  |
| Country i     |  | Postal Code    |  |
| Phone Number  |  | Fax Number     |  |
| Email Address |  |                |  |

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

**Signature:**


NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.

|                  |                    |           |                   |                     |
|------------------|--------------------|-----------|-------------------|---------------------|
| <b>Signature</b> | /John Fulton, Jr./ |           | Date (YYYY-MM-DD) | 2015-09-03          |
| First Name       | John               | Last Name | Fulton, Jr.       | Registration Number |
|                  |                    |           |                   | 46716               |

Additional Signature may be generated within this form by selecting the Add button.

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**NONPUBLICATION REQUEST  
UNDER  
35 U.S.C. 122(b)(2)(B)(i)**

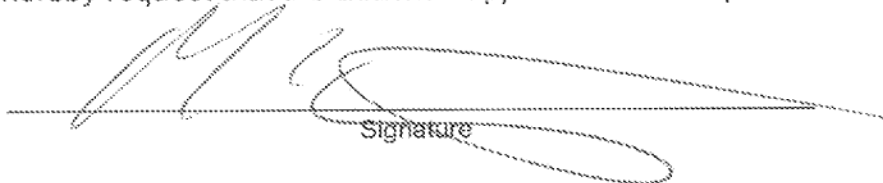
First Named Inventor Marc Levy

Title FLUID DISPERSION ASSEMBLY

Attorney Docket Number 1.106A.15

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

 \_\_\_\_\_  
Signature

9/2/15  
Date

Marc Levy

Typed or printed name

Registration Number, if applicable

(305) 858-8000

Telephone Number

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

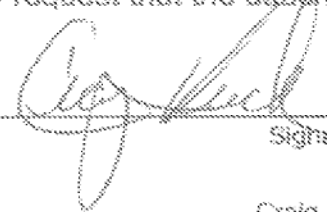
This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2

|                                                                       |                                       |                           |
|-----------------------------------------------------------------------|---------------------------------------|---------------------------|
| <b>NONPUBLICATION REQUEST<br/>UNDER<br/>35 U.S.C. 122(b)(2)(B)(i)</b> | First Named Inventor      Marc Levy   |                           |
|                                                                       | Title                                 | FLUID DISPERSION ASSEMBLY |
|                                                                       | Attorney Docket Number      1.106A.15 |                           |

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).



\_\_\_\_\_  
Signature

Craig Huck

9-3-15

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed or printed name

(305) 858-8000

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Registration Number, if applicable

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.33(b). This information is required to obtain or retain a benefit by the public which is in the (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 5 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-0198 (1-800-786-0198) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**NONPUBLICATION REQUEST  
UNDER  
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor

Marc Levy

Title

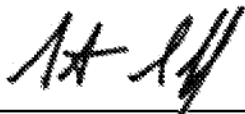
FLUID DISPERSION ASSEMBLY

Attorney Docket Number

1.106A.15

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).



Signature

09/02/15

Date

Steven Semoff

Typed or printed name

Registration Number, if applicable

(305) 858-8000

Telephone Number

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

## Electronic Patent Application Fee Transmittal

|                                                    |                              |                 |               |                             |
|----------------------------------------------------|------------------------------|-----------------|---------------|-----------------------------|
| <b>Application Number:</b>                         |                              |                 |               |                             |
| <b>Filing Date:</b>                                |                              |                 |               |                             |
| <b>Title of Invention:</b>                         | FLUID DISPERSION ASSEMBLY    |                 |               |                             |
| <b>First Named Inventor/Applicant Name:</b>        | Marc Levy                    |                 |               |                             |
| <b>Filer:</b>                                      | John Fulton/Monica Rodriguez |                 |               |                             |
| <b>Attorney Docket Number:</b>                     | 1.106A.15                    |                 |               |                             |
| Filed as Small Entity                              |                              |                 |               |                             |
| <b>Filing Fees for Utility under 35 USC 111(a)</b> |                              |                 |               |                             |
| <b>Description</b>                                 | <b>Fee Code</b>              | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                               |                              |                 |               |                             |
| Utility filing Fee (Electronic filing)             | 4011                         | 1               | 70            | 70                          |
| Utility Search Fee                                 | 2111                         | 1               | 300           | 300                         |
| Utility Examination Fee                            | 2311                         | 1               | 360           | 360                         |
| <b>Pages:</b>                                      |                              |                 |               |                             |
| <b>Claims:</b>                                     |                              |                 |               |                             |
| Independent Claims in Excess of 3                  | 2201                         | 1               | 210           | 210                         |
| <b>Miscellaneous-Filing:</b>                       |                              |                 |               |                             |
| <b>Petition:</b>                                   |                              |                 |               |                             |

| Description                       | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|-----------------------------------|----------|----------|--------|----------------------|
| Patent-Appeals-and-Interference:  |          |          |        |                      |
| Post-Allowance-and-Post-Issuance: |          |          |        |                      |
| Extension-of-Time:                |          |          |        |                      |
| Miscellaneous:                    |          |          |        |                      |
| Total in USD (\$)                 |          |          |        | 940                  |

## Electronic Acknowledgement Receipt

|                                             |                              |
|---------------------------------------------|------------------------------|
| <b>EFS ID:</b>                              | 23398858                     |
| <b>Application Number:</b>                  | 14844650                     |
| <b>International Application Number:</b>    |                              |
| <b>Confirmation Number:</b>                 | 3887                         |
| <b>Title of Invention:</b>                  | FLUID DISPERSION ASSEMBLY    |
| <b>First Named Inventor/Applicant Name:</b> | Marc Levy                    |
| <b>Customer Number:</b>                     | 4219                         |
| <b>Filer:</b>                               | John Fulton/Monica Rodriguez |
| <b>Filer Authorized By:</b>                 | John Fulton                  |
| <b>Attorney Docket Number:</b>              | 1.106A.15                    |
| <b>Receipt Date:</b>                        | 03-SEP-2015                  |
| <b>Filing Date:</b>                         |                              |
| <b>Time Stamp:</b>                          | 15:54:45                     |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)  |

### Payment information:

|                                          |             |
|------------------------------------------|-------------|
| Submitted with Payment                   | yes         |
| Payment Type                             | Credit Card |
| Payment was successfully received in RAM | \$ 940      |
| RAM confirmation Number                  | 2647        |
| Deposit Account                          |             |
| Authorized User                          |             |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

|                 |                                                     |                                                            |                                          |                  |                  |
|-----------------|-----------------------------------------------------|------------------------------------------------------------|------------------------------------------|------------------|------------------|
|                 |                                                     |                                                            |                                          |                  |                  |
| File Listing:   |                                                     |                                                            |                                          |                  |                  |
| Document Number | Document Description                                | File Name                                                  | File Size(Bytes)/ Message Digest         | Multi Part /.zip | Pages (if appl.) |
| 1               | Miscellaneous Incoming Letter                       | 2015_09_03_EFS_CERT_CON_PA_Filed_1106A.pdf                 | 11853                                    | no               | 1                |
|                 |                                                     |                                                            | ba940d75a9bd4e8149f0672da29bf08cb4608605 |                  |                  |
| Warnings:       |                                                     |                                                            |                                          |                  |                  |
| Information:    |                                                     |                                                            |                                          |                  |                  |
| 2               | Transmittal of New Application                      | 2015_09_03_Transmittal_EFS_PA_Filed_1106A.pdf              | 19462                                    | no               | 1                |
|                 |                                                     |                                                            | 808c423c6f894f7d3272482021006122166663cb |                  |                  |
| Warnings:       |                                                     |                                                            |                                          |                  |                  |
| Information:    |                                                     |                                                            |                                          |                  |                  |
| 3               |                                                     | 2015_09_03_Continuation_Patent_Application_Filed_1106A.pdf | 101224                                   | yes              | 27               |
|                 |                                                     |                                                            | 7d3567c4efcb456f5c645c74fb3f5928f518f914 |                  |                  |
|                 | Multipart Description/PDF files in .zip description |                                                            |                                          |                  |                  |
|                 | Document Description                                |                                                            | Start                                    | End              |                  |
|                 | Specification                                       |                                                            | 1                                        | 19               |                  |
|                 | Claims                                              |                                                            | 20                                       | 26               |                  |
|                 | Abstract                                            |                                                            | 27                                       | 27               |                  |
| Warnings:       |                                                     |                                                            |                                          |                  |                  |
| Information:    |                                                     |                                                            |                                          |                  |                  |
| 4               | Drawings-only black and white line drawings         | 2015_09_03_Drawings_Filed_1106A.pdf                        | 66015                                    | no               | 5                |
|                 |                                                     |                                                            | d50aa13763944f3395100367398fad4720850594 |                  |                  |
| Warnings:       |                                                     |                                                            |                                          |                  |                  |
| Information:    |                                                     |                                                            |                                          |                  |                  |
| 5               | Oath or Declaration filed                           | 2015_09_03_Dec_and_POA_Filed_1106A.pdf                     | 1222645                                  | no               | 4                |
|                 |                                                     |                                                            | aeda98567c59bbe6202090478895ad8f72f0b28  |                  |                  |
| Warnings:       |                                                     |                                                            |                                          |                  |                  |
| Information:    |                                                     |                                                            |                                          |                  |                  |
| 6               | Application Data Sheet                              | 2015_09_03_ADS_Filed_1106A.pdf                             | 1819621                                  | no               | 7                |
|                 |                                                     |                                                            | c5c75094542bac6c9869364ebbcc91cf9b4a0ca  |                  |                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |                                               |                                                    |    |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------|----------------------------------------------------|----|---|
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                                               |                                                    |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                                               |                                                    |    |   |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Nonpublication request from applicant | 2015_09_03_Non_Publication_ML_Filed_1106A.pdf | 608159<br>a6c89a405abfa2359cc1fa7a224cf1b28a4055ab | no | 1 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                                               |                                                    |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                                               |                                                    |    |   |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Nonpublication request from applicant | 2015_09_03_Non_Publication_CH_Filed_1106A.pdf | 577485<br>8d440bbff7144482c3519ef7d1eb77e4735be787 | no | 1 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                                               |                                                    |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                                               |                                                    |    |   |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Nonpublication request from applicant | 2015_09_03_Non_Publication_SS_Filed_1106A.pdf | 70748<br>0ccb3767a3f6dfe07f33857838bcf5c9f089c9b0  | no | 1 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                                               |                                                    |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                                               |                                                    |    |   |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fee Worksheet (SB06)                  | fee-info.pdf                                  | 36864<br>4f6be858233444b8f1a3c69122e20f1b5e5092c8  | no | 2 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                                               |                                                    |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                                               |                                                    |    |   |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                                               | 4534076                                            |    |   |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p> |                                       |                                               |                                                    |    |   |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Air Essentials Inc.

Inventors: Marcy Levy, Craig Huck, and Steven Semoff

Serial No.:

Filing Date:

For: FLUID DISPERSION ASSEMBLY

Customer No. 04219

2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF EFS-WEB TRANSMISSION

I HEREBY CERTIFY that this correspondence is being transmitted via the U.S. Patent and Trademark Office (USPTO) electronic filing system (EFS-Web) to the USPTO this 3 day of September, 2015.

Respectfully Submitted,

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By: /John Fulton, Jr./  
John Fulton, Jr.  
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Date: September 3, 2015



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|-----------------------|--------------------------|-----------------|---------------|-----------------|------------|------------|
| 14/844,650            | 09/03/2015               | 1715            | 940           | 1.106A.15       | 20         | 4          |

CONFIRMATION NO. 3887

FILING RECEIPT



0000000077511576

4219  
MALLOY & MALLOY  
2800 S.W. THIRD AVENUE  
HISTORIC CORAL WAY  
MIAMI, FL 33129

Date Mailed: 09/18/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

**Inventor(s)**

Marc Levy, Miami, FL;  
Craig Huck, Waterford, PA;  
Steven Semoff, New City, NY;

**Applicant(s)**

Air Essentials Inc., Miami, FL;

**Power of Attorney:** None

**Domestic Priority data as claimed by applicant**

This application is a CON of 13/838,364 03/15/2013 PAT 9126215  
which claims benefit of 61/694,500 08/29/2012

**Foreign Applications** for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

*Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.*

**If Required, Foreign Filing License Granted:** 09/17/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/844,650**

**Projected Publication Date:** Request for Non-Publication Acknowledged

**Non-Publication Request:** Yes

**Early Publication Request:** No

**\*\* SMALL ENTITY \*\***

**Title**

FLUID DISPERSION ASSEMBLY

**Preliminary Class**

427

**Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No****PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |                                    |               |                    |                    | Application or Docket Number<br>14/844,650 |                    |                               |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------|--------------------|--------------------|--------------------------------------------|--------------------|-------------------------------|--|
| <b>APPLICATION AS FILED - PART I</b>                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                               |                                    |               |                    |                    |                                            |                    |                               |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               | (Column 2)                         |               | SMALL ENTITY       |                    | OR<br>OTHER THAN SMALL ENTITY              |                    |                               |  |
| FOR                                                                                                                                                                                                                                                                                                                                                                                                        | NUMBER FILED                                                                                                                                                                                                                  | NUMBER EXTRA                       | RATE(\$)      | FEE(\$)            |                    | RATE(\$)                                   | FEE(\$)            |                               |  |
| BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))                                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                                                           | N/A                                | N/A           | 70                 |                    | N/A                                        |                    |                               |  |
| SEARCH FEE<br>(37 CFR 1.16(k), (i), or (m))                                                                                                                                                                                                                                                                                                                                                                | N/A                                                                                                                                                                                                                           | N/A                                | N/A           | 300                |                    | N/A                                        |                    |                               |  |
| EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))                                                                                                                                                                                                                                                                                                                                                           | N/A                                                                                                                                                                                                                           | N/A                                | N/A           | 360                |                    | N/A                                        |                    |                               |  |
| TOTAL CLAIMS<br>(37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                           | 20                                                                                                                                                                                                                            | minus 20 = *                       | x 40 =        | 0.00               | OR                 |                                            |                    |                               |  |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                     | 4                                                                                                                                                                                                                             | minus 3 = *                        | x 210 =       | 210                |                    |                                            |                    |                               |  |
| APPLICATION SIZE FEE<br>(37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                   | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |                                    |               | 0.00               |                    |                                            |                    |                               |  |
| MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |                                    |               | 0.00               |                    |                                            |                    |                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                    |               | TOTAL              |                    | TOTAL                                      |                    |                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                    |               |                    |                    |                                            |                    |                               |  |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                               |                                    |               |                    |                    |                                            |                    |                               |  |
| <b>APPLICATION AS AMENDED - PART II</b>                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                               |                                    |               |                    |                    |                                            |                    |                               |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               | (Column 2)                         |               | (Column 3)         |                    | SMALL ENTITY                               |                    | OR<br>OTHER THAN SMALL ENTITY |  |
| AMENDMENT A                                                                                                                                                                                                                                                                                                                                                                                                | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                              | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$)           | ADDITIONAL FEE(\$) |                                            | RATE(\$)           | ADDITIONAL FEE(\$)            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Total<br>(37 CFR 1.16(i))                                                                                                                                                                                                     | *                                  | Minus **      | x                  | =                  | OR                                         | x                  | =                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Independent<br>(37 CFR 1.16(h))                                                                                                                                                                                               | *                                  | Minus ***     | x                  | =                  | OR                                         | x                  | =                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                         |                                    |               |                    |                    | OR                                         |                    |                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                               |                                    |               |                    |                    | OR                                         |                    |                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                    |               | TOTAL<br>ADD'L FEE |                    | OR                                         | TOTAL<br>ADD'L FEE |                               |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               | (Column 2)                         |               | (Column 3)         |                    | SMALL ENTITY                               |                    | OR<br>OTHER THAN SMALL ENTITY |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                              | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE(\$)           | ADDITIONAL FEE(\$) |                                            | RATE(\$)           | ADDITIONAL FEE(\$)            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Total<br>(37 CFR 1.16(i))                                                                                                                                                                                                     | *                                  | Minus **      | x                  | =                  | OR                                         | x                  | =                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Independent<br>(37 CFR 1.16(h))                                                                                                                                                                                               | *                                  | Minus ***     | x                  | =                  | OR                                         | x                  | =                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                         |                                    |               |                    |                    | OR                                         |                    |                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                               |                                    |               |                    |                    | OR                                         |                    |                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                    |               | TOTAL<br>ADD'L FEE |                    | OR                                         | TOTAL<br>ADD'L FEE |                               |  |
| * If the entry in column 1 is less than the entry in column 2, write "0" in column 3.<br>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".<br>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".<br>The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1. |                                                                                                                                                                                                                               |                                    |               |                    |                    |                                            |                    |                               |  |

|                                                                                                     |                        |            |
|-----------------------------------------------------------------------------------------------------|------------------------|------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>( Not for submission under 37 CFR 1.99) | Application Number     | 14844650   |
|                                                                                                     | Filing Date            | 2015-09-03 |
|                                                                                                     | First Named Inventor   | Marc Levy  |
|                                                                                                     | Art Unit               | 1715       |
|                                                                                                     | Examiner Name          |            |
|                                                                                                     | Attorney Docket Number | 1.106A.15  |

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|-------------------|---------|---------------|------------------------|------------|-------------------------------------------------|------------------------------------------------------------------------|
| Examiner Initial* | Cite No | Patent Number | Kind Code <sup>1</sup> | Issue Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |
|                   | 1       | 7878418       |                        | 2011-02-01 | Sevy                                            |                                                                        |
|                   | 2       | 7913933       |                        | 2011-03-29 | Van Roemburg                                    |                                                                        |
|                   | 3       | 7930068       |                        | 2011-04-19 | Robert et al.                                   |                                                                        |
|                   | 4       | D645947       |                        | 2011-09-27 | Sevy                                            |                                                                        |

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|-------------------------------------|---------|--------------------|------------------------|------------------|-------------------------------------------------|------------------------------------------------------------------------|
| Examiner Initial*                   | Cite No | Publication Number | Kind Code <sup>1</sup> | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |
|                                     | 1       | 20090025794        |                        | 2009-01-29       | Dorendorf et al.                                |                                                                        |
|                                     | 2       | 20090317504        |                        | 2009-12-24       | Rajala et al.                                   |                                                                        |

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( Not for submission under 37 CFR 1.99)

|                        |           |            |
|------------------------|-----------|------------|
| Application Number     |           | 14844650   |
| Filing Date            |           | 2015-09-03 |
| First Named Inventor   | Marc Levy |            |
| Art Unit               | 1715      |            |
| Examiner Name          |           |            |
| Attorney Docket Number | 1.106A.15 |            |

| Examiner Initial* | Cite No | Foreign Document Number <sup>3</sup> | Country Code <sup>2</sup> | Kind Code <sup>4</sup> | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T <sup>5</sup> |
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|-------------------------------------------------|--------------------------------------------------------------------------|----------------|
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| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

|                        |            |
|------------------------|------------|
| Application Number     | 14844650   |
| Filing Date            | 2015-09-03 |
| First Named Inventor   | Marc Levy  |
| Art Unit               | 1715       |
| Examiner Name          |            |
| Attorney Docket Number | 1.106A.15  |

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

|            |                    |                     |            |
|------------|--------------------|---------------------|------------|
| Signature  | /John Fulton, Jr./ | Date (YYYY-MM-DD)   | 2016-04-29 |
| Name/Print | John Fulton, Jr.   | Registration Number | 46716      |

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

## Electronic Acknowledgement Receipt

|                                             |                              |
|---------------------------------------------|------------------------------|
| <b>EFS ID:</b>                              | 25642233                     |
| <b>Application Number:</b>                  | 14844650                     |
| <b>International Application Number:</b>    |                              |
| <b>Confirmation Number:</b>                 | 3887                         |
| <b>Title of Invention:</b>                  | FLUID DISPERSION ASSEMBLY    |
| <b>First Named Inventor/Applicant Name:</b> | Marc Levy                    |
| <b>Customer Number:</b>                     | 4219                         |
| <b>Filer:</b>                               | John Fulton/Monica Rodriguez |
| <b>Filer Authorized By:</b>                 | John Fulton                  |
| <b>Attorney Docket Number:</b>              | 1.106A.15                    |
| <b>Receipt Date:</b>                        | 29-APR-2016                  |
| <b>Filing Date:</b>                         | 03-SEP-2015                  |
| <b>Time Stamp:</b>                          | 16:19:34                     |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)  |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description          | File Name                         | File Size(Bytes)/<br>Message Digest               | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|-----------------------------------|---------------------------------------------------|------------------|------------------|
| 1               | Miscellaneous Incoming Letter | 2016_04_29_Cert_EFS_IDS_1106A.pdf | 12065<br>c067ef76c952b5ba47c6f4273970a0032f24cde6 | no               | 1                |

### Warnings:

### Information:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |                                      |                                                     |    |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------|-----------------------------------------------------|----|---|
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Transmittal Letter                                 | 2016_04_29_IDS_Transmittal_1106A.pdf | 11904<br>cef649a8277289db009c0e9190c39d892dd6cb48   | no | 2 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |                                      |                                                     |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |                                      |                                                     |    |   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Information Disclosure Statement (IDS) Form (SB08) | 2016_04_29_IDS_Filed_1106A.pdf       | 1035028<br>d027ea0283f196dd59b39b5fddf0cc29036ef2b8 | no | 4 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |                                      |                                                     |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |                                      |                                                     |    |   |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |                                      | 1058997                                             |    |   |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p> |                                                    |                                      |                                                     |    |   |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Air Essentials Inc.

Inventors: Marcy Levy, Craig Huck, and Steven Semoff

Serial No.: 14/844,650

Filing Date: September 3, 2015

For: FLUID DISPERSION ASSEMBLY

Confirmation No. 3887  
Customer No. 04219  
Group Art Unit 1715

2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

CERTIFICATE OF EFS-WEB TRANSMISSION

I HEREBY CERTIFY that this correspondence is being transmitted to the U.S. Patent and Trademark Office (USPTO) via the USPTO electronic filing system (EFS-Web) this 29th day of April, 2016.

Respectfully Submitted,

MALLOY & MALLOY, P.L.  
Attorneys for Applicant  
2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129  
(305)858-8000

By: /John Fulton, Jr./  
John Fulton, Jr.  
Reg. No. 46,716  
Email: patents@malloylaw.com

Date: April 29, 2016

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Air Essentials Inc.

Inventors: Marcy Levy, Craig Huck, and Steven Semoff

Serial No.: 14/844,650

Filing Date: September 3, 2015

For: FLUID DISPERSION ASSEMBLY

Confirmation No. 3887  
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2800 S.W. Third Avenue  
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Miami, Florida 33129

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

In accordance with Applicant's duty of disclosure, the attached information is provided for consideration by the U.S. Patent and Trademark Office in connection with the above-captioned application. The information is identified on the attached form PTO/SB/08A. In accordance with 37 C.F.R. §1.98(a)(2)(ii), copies of U.S. patents or U.S. patent application publications have not been enclosed.

The Examiner is respectfully requested to return a copy of an initialed form PTO/SB/08A evidencing consideration of this information with the next Office Communication.

Respectfully submitted,

MALLOY & MALLOY, P.L.  
Attorneys for Applicant  
2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129  
(305) 858-8000

By: /John Fulton, Jr./  
John Fulton, Jr.  
Reg. No. 46,716  
Email: patents@malloylaw.com

Date: April 29, 2016



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NO.                                                                    | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------------------------------------------------------------------|-------------|----------------------|---------------------|------------------|
| 14/844,650                                                                         | 09/03/2015  | Marc Levy            | 1.106A.15           | 3887             |
| 4219                                                                               | 7590        | 06/08/2016           | EXAMINER            |                  |
| MALLOY & MALLOY<br>2800 S.W. THIRD AVENUE<br>HISTORIC CORAL WAY<br>MIAMI, FL 33129 |             |                      | HWU, DAVIS D        |                  |
|                                                                                    |             |                      | ART UNIT            | PAPER NUMBER     |
|                                                                                    |             |                      | 3752                |                  |
|                                                                                    |             |                      | MAIL DATE           | DELIVERY MODE    |
|                                                                                    |             |                      | 06/08/2016          | PAPER            |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                                      |                                    |                                                  |
|------------------------------|--------------------------------------|------------------------------------|--------------------------------------------------|
| <b>Office Action Summary</b> | <b>Application No.</b><br>14/844,650 | <b>Applicant(s)</b><br>LEVY ET AL. |                                                  |
|                              | <b>Examiner</b><br>Davis Hwu         | <b>Art Unit</b><br>3752            | <b>AIA (First Inventor to File) Status</b><br>No |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 03 September 2015.  
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims\*

- 5) ☒ Claim(s) 1-20 is/are pending in the application.  
5a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 6) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 7) ☒ Claim(s) 1-20 is/are rejected.
- 8) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 9) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

\* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see [http://www.uspto.gov/patents/init\\_events/pph/index.jsp](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto:PPHfeedback@uspto.gov).

### Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

#### Certified copies:

- a) ☐ All    b) ☐ Some\*\*    c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\*\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)  
Paper No(s)/Mail Date 4/29/2016.
- 3) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 4) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### ***Double Patenting***

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(I)(1) - 706.02(I)(3) for

applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit [www.uspto.gov/forms/](http://www.uspto.gov/forms/). The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to <http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp>.

2. Claims 1-20 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-9 of U.S. Patent No. 9,126,215. Although the claims at issue are not identical, they are not patentably distinct from each other because the limitations of the instant invention are covered by patent '215.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davis Hwu whose telephone number is (571)272-4904. The examiner's supervisor, Len Tran can be reached on (571)272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 3752

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Davis Hwu/

Primary Examiner, Art Unit 3752

|                                   |                                       |  |                                                           |             |
|-----------------------------------|---------------------------------------|--|-----------------------------------------------------------|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>14/844,650 |  | Applicant(s)/Patent Under<br>Reexamination<br>LEVY ET AL. |             |
|                                   | Examiner<br>Davis Hwu                 |  | Art Unit<br>3752                                          | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name       | CPC Classification | US Classification |
|---|---|--------------------------------------------------|-----------------|------------|--------------------|-------------------|
| * | A | US-9,126,215 B1                                  | 09-2015         | Levy; Marc | B05B7/0012         | 1/1               |
|   | B | US-                                              |                 |            |                    |                   |
|   | C | US-                                              |                 |            |                    |                   |
|   | D | US-                                              |                 |            |                    |                   |
|   | E | US-                                              |                 |            |                    |                   |
|   | F | US-                                              |                 |            |                    |                   |
|   | G | US-                                              |                 |            |                    |                   |
|   | H | US-                                              |                 |            |                    |                   |
|   | I | US-                                              |                 |            |                    |                   |
|   | J | US-                                              |                 |            |                    |                   |
|   | K | US-                                              |                 |            |                    |                   |
|   | L | US-                                              |                 |            |                    |                   |
|   | M | US-                                              |                 |            |                    |                   |

**FOREIGN PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | CPC Classification |
|---|---|--------------------------------------------------|-----------------|---------|------|--------------------|
|   | N |                                                  |                 |         |      |                    |
|   | O |                                                  |                 |         |      |                    |
|   | P |                                                  |                 |         |      |                    |
|   | Q |                                                  |                 |         |      |                    |
|   | R |                                                  |                 |         |      |                    |
|   | S |                                                  |                 |         |      |                    |
|   | T |                                                  |                 |         |      |                    |

**NON-PATENT DOCUMENTS**

| * |   | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|-------------------------------------------------------------------------------------------|
|   | U |                                                                                           |
|   | V |                                                                                           |
|   | W |                                                                                           |
|   | X |                                                                                           |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Doc code: IDS

PTO/SB/08a (03-15)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2016. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

|                        |            |
|------------------------|------------|
| Application Number     | 14844650   |
| Filing Date            | 2015-09-03 |
| First Named Inventor   | Marc Levy  |
| Art Unit               | 1715       |
| Examiner Name          |            |
| Attorney Docket Number | 1.106A.15  |

| U.S.PATENTS                                                                                 |         |               |                        |            |                                                 | Remove                                                                 |
|---------------------------------------------------------------------------------------------|---------|---------------|------------------------|------------|-------------------------------------------------|------------------------------------------------------------------------|
| Examiner Initial*                                                                           | Cite No | Patent Number | Kind Code <sup>1</sup> | Issue Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |
|                                                                                             | 1       | 7878418       |                        | 2011-02-01 | Sevy                                            |                                                                        |
|                                                                                             | 2       | 7913933       |                        | 2011-03-29 | Van Roemburg                                    |                                                                        |
|                                                                                             | 3       | 7930068       |                        | 2011-04-19 | Robert et al.                                   |                                                                        |
|                                                                                             | 4       | D645947       |                        | 2011-09-27 | Sevy                                            |                                                                        |
| If you wish to add additional U.S. Patent citation information please click the Add button. |         |               |                        |            |                                                 | Add                                                                    |

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| Examiner Initial*                                                                                          | Cite No | Publication Number | Kind Code <sup>1</sup> | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |
|                                                                                                            | 1       | 20090025794        |                        | 2009-01-29       | Dorendorf et al.                                |                                                                        |
|                                                                                                            | 2       | 20090317504        |                        | 2009-12-24       | Rajala et al.                                   |                                                                        |
| If you wish to add additional U.S. Published Application citation information please click the Add button. |         |                    |                        |                  |                                                 | Add                                                                    |
| FOREIGN PATENT DOCUMENTS                                                                                   |         |                    |                        |                  |                                                 | Remove                                                                 |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.H./

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

|                        |           |            |
|------------------------|-----------|------------|
| Application Number     |           | 14844650   |
| Filing Date            |           | 2015-09-03 |
| First Named Inventor   | Marc Levy |            |
| Art Unit               | 1715      |            |
| Examiner Name          |           |            |
| Attorney Docket Number | 1.106A.15 |            |

| Examiner Initial* | Cite No | Foreign Document Number <sup>3</sup> | Country Code <sup>2</sup> | Kind Code <sup>4</sup> | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T <sup>5</sup> |
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|-------------------------------------------------|--------------------------------------------------------------------------|----------------|
|                   | 1       |                                      |                           |                        |                  |                                                 |                                                                          |                |

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## **NON-PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>5</sup> |
|--------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                    | 1       |                                                                                                                                                                                                                                                                 |                |

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## **EXAMINER SIGNATURE**

|                    |             |                 |            |
|--------------------|-------------|-----------------|------------|
| Examiner Signature | /Davis Hwu/ | Date Considered | 06/05/2016 |
|--------------------|-------------|-----------------|------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.H./

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

|                        |            |
|------------------------|------------|
| Application Number     | 14844650   |
| Filing Date            | 2015-09-03 |
| First Named Inventor   | Marc Levy  |
| Art Unit               | 1715       |
| Examiner Name          |            |
| Attorney Docket Number | 1.106A.15  |

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

|            |                    |                     |            |
|------------|--------------------|---------------------|------------|
| Signature  | /John Fulton, Jr./ | Date (YYYY-MM-DD)   | 2016-04-29 |
| Name/Print | John Fulton, Jr.   | Registration Number | 46716      |

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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## BIB DATA SHEET

CONFIRMATION NO. 3887

| SERIAL NUMBER                                                                                                                                                                                                                                              | FILING or 371(c)<br>DATE                                                                                          | CLASS                             | GROUP ART UNIT                                                                                                                                                                                                                                                            | ATTORNEY DOCKET<br>NO.        |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------|
| 14/844,650                                                                                                                                                                                                                                                 | 09/03/2015                                                                                                        | 239                               | 3752                                                                                                                                                                                                                                                                      | 1.106A.15                     |                                    |
| <b>RULE</b>                                                                                                                                                                                                                                                |                                                                                                                   |                                   |                                                                                                                                                                                                                                                                           |                               |                                    |
| <b>APPLICANTS</b><br>Air Essentials Inc., Miami, FL;                                                                                                                                                                                                       |                                                                                                                   |                                   |                                                                                                                                                                                                                                                                           |                               |                                    |
| <b>INVENTORS</b><br>Marc Levy, Miami, FL;<br>Craig Huck, Waterford, PA;<br>Steven Semoff, New City, NY;                                                                                                                                                    |                                                                                                                   |                                   |                                                                                                                                                                                                                                                                           |                               |                                    |
| <b>** CONTINUING DATA *****</b><br>This application is a CON of 13/838,364 03/15/2013 PAT 9126215<br>which claims benefit of 61/694,500 08/29/2012                                                                                                         |                                                                                                                   |                                   |                                                                                                                                                                                                                                                                           |                               |                                    |
| <b>** FOREIGN APPLICATIONS *****</b>                                                                                                                                                                                                                       |                                                                                                                   |                                   |                                                                                                                                                                                                                                                                           |                               |                                    |
| <b>** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY **</b><br>09/17/2015                                                                                                                                                                    |                                                                                                                   |                                   |                                                                                                                                                                                                                                                                           |                               |                                    |
| Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Verified and /DAVIS D HWU/<br>Acknowledged Examiner's Signature | <input type="checkbox"/> Met after Allowance<br>Initials                                                          | <b>STATE OR<br/>COUNTRY</b><br>FL | <b>SHEETS<br/>DRAWINGS</b><br>5                                                                                                                                                                                                                                           | <b>TOTAL<br/>CLAIMS</b><br>20 | <b>INDEPENDENT<br/>CLAIMS</b><br>4 |
| <b>ADDRESS</b><br>MALLOY & MALLOY<br>2800 S.W. THIRD AVENUE<br>HISTORIC CORAL WAY<br>MIAMI, FL 33129                                                                                                                                                       |                                                                                                                   |                                   |                                                                                                                                                                                                                                                                           |                               |                                    |
| <b>TITLE</b><br>FLUID DISPERSION ASSEMBLY                                                                                                                                                                                                                  |                                                                                                                   |                                   |                                                                                                                                                                                                                                                                           |                               |                                    |
| <b>FILING FEE<br/>RECEIVED</b><br>940                                                                                                                                                                                                                      | FEES: Authority has been given in Paper<br>No. _____ to charge/credit DEPOSIT ACCOUNT<br>No. _____ for following: |                                   | <input type="checkbox"/> All Fees<br><input type="checkbox"/> 1.16 Fees (Filing)<br><input type="checkbox"/> 1.17 Fees (Processing Ext. of time)<br><input type="checkbox"/> 1.18 Fees (Issue)<br><input type="checkbox"/> Other _____<br><input type="checkbox"/> Credit |                               |                                    |

|                                                                                                              |                                                |                                                                   |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------|
| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>14844650 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>LEVY ET AL. |
|                                                                                                              | <b>Examiner</b><br><br>DAVIS HWU               | <b>Art Unit</b><br><br>3752                                       |

| CPC- SEARCHED                                     |        |          |
|---------------------------------------------------|--------|----------|
| Symbol                                            | Date   | Examiner |
| B05B 1/08, 11/3042, 7/066, 7/2491, 17/0646, 17/04 | 6/5/16 | dh       |

| CPC COMBINATION SETS - SEARCHED |      |          |
|---------------------------------|------|----------|
| Symbol                          | Date | Examiner |
|                                 |      |          |

| US CLASSIFICATION SEARCHED |                         |        |          |
|----------------------------|-------------------------|--------|----------|
| Class                      | Subclass                | Date   | Examiner |
| 239                        | 427, 337, 338, 426, 433 | 6/5/16 | dh       |

| SEARCH NOTES |        |          |
|--------------|--------|----------|
| Search Notes | Date   | Examiner |
| east         | 6/5/16 | dh       |

| INTERFERENCE SEARCH     |                         |      |          |
|-------------------------|-------------------------|------|----------|
| US Class/<br>CPC Symbol | US Subclass / CPC Group | Date | Examiner |
|                         |                         |      |          |

|  |                                          |
|--|------------------------------------------|
|  | /D.H./<br>Primary Examiner.Art Unit 3752 |
|--|------------------------------------------|

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Air Essentials Inc.

Inventors: Marc Levy, Craig Huck and Steven Semoff

Serial No.: 14/844,650

Filing Date: September 3, 2015

For: FLUID DISPERSION ASSEMBLY

Confirmation No. 3887  
Customer No. 04219  
Hwu, Davis D., Examiner  
Group Art Unit 3752

2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**A M E N D M E N T**

In response to the Office Action of June 8, 2016, applicant provides the following:

**REMARKS** begin on page **2** of this paper.

**REMARKS**

This amendment is submitted in full response to the outstanding Office Action dated June 8, 2016 wherein claims 1 through 20 are rejected on the ground of nonstatutory double patenting as being unpatentable over U.S. Patent No. 9,126,215 to Applicant herein.

An eTerminal Disclaimer is filed concurrently herewith, therefore, the provisional rejection of claims 1 through 20 on the ground of nonstatutory double patenting is fully traversed.

Based on the above, this application is believed to be in clear condition for allowance and such action is respectfully solicited.

Respectfully submitted,

MALLOY & MALLOY, P.L.  
Attorneys for Applicant  
2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129  
(305) 858-8000

By: /John Fulton, Jr./  
John Fulton, Jr.  
Reg. No. 46,716  
Email: patents@malloylaw.com

Date: July 29, 2016

## Electronic Acknowledgement Receipt

|                                             |                              |
|---------------------------------------------|------------------------------|
| <b>EFS ID:</b>                              | 26498717                     |
| <b>Application Number:</b>                  | 14844650                     |
| <b>International Application Number:</b>    |                              |
| <b>Confirmation Number:</b>                 | 3887                         |
| <b>Title of Invention:</b>                  | FLUID DISPERSION ASSEMBLY    |
| <b>First Named Inventor/Applicant Name:</b> | Marc Levy                    |
| <b>Customer Number:</b>                     | 4219                         |
| <b>Filer:</b>                               | John Fulton/Monica Rodriguez |
| <b>Filer Authorized By:</b>                 | John Fulton                  |
| <b>Attorney Docket Number:</b>              | 1.106A.15                    |
| <b>Receipt Date:</b>                        | 29-JUL-2016                  |
| <b>Filing Date:</b>                         | 03-SEP-2015                  |
| <b>Time Stamp:</b>                          | 16:35:50                     |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)  |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description          | File Name                             | File Size(Bytes)/<br>Message Digest                       | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|---------------------------------------|-----------------------------------------------------------|------------------|------------------|
| 1               | Miscellaneous Incoming Letter | 2016_07_29_Cert_EFS_AMD_1<br>106A.pdf | 12111<br><br>9d5dd8216537cbd65010e4e2608e24a3f91<br>b7e49 | no               | 1                |

### Warnings:

| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |                                         |                                                   |            |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|---------------------------------------------------|------------|---|
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                            | 2016_07_29_Amendment_TD_Filed_1106A.pdf | 14091<br>46f8e8f9a6af19247340de2049d633735af8d527 | yes        | 2 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Multipart Description/PDF files in .zip description</b> |                                         |                                                   |            |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Document Description</b>                                |                                         | <b>Start</b>                                      | <b>End</b> |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Amendment/Req. Reconsideration-After Non-Final Reject      |                                         | 1                                                 | 1          |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Applicant Arguments/Remarks Made in an Amendment           |                                         | 2                                                 | 2          |   |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                            |                                         |                                                   |            |   |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |                                         |                                                   |            |   |
| Total Files Size (in bytes):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |                                         | 26202                                             |            |   |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p> |                                                            |                                         |                                                   |            |   |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Air Essentials Inc.

Inventors: Marcy Levy, Craig Huck, and Steven Semoff

Serial No.: 14/844,650

Filing Date: September 3, 2015

For: FLUID DISPERSION ASSEMBLY

Confirmation No. 3887  
Customer No. 04219  
Hwu, Davis D., Examiner  
Group Art Unit 3752

2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

CERTIFICATE OF EFS-WEB TRANSMISSION

I HEREBY CERTIFY that this correspondence is being transmitted to the U.S. Patent and Trademark Office (USPTO) via the USPTO electronic filing system (EFS-Web) this 29th day of July, 2016.

Respectfully Submitted,

MALLOY & MALLOY, P.L.  
Attorneys for Applicant  
2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129  
(305)858-8000

By: /John Fulton, Jr./  
John Fulton, Jr.  
Reg. No. 46,716  
Email: patents@malloylaw.com

Date: July 29, 2016

|                                                                                   |  |  |  |                                                   |  |                                  |  |                                       |  |
|-----------------------------------------------------------------------------------|--|--|--|---------------------------------------------------|--|----------------------------------|--|---------------------------------------|--|
| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875 |  |  |  | Application or Docket Number<br><b>14/844,650</b> |  | Filing Date<br><b>09/03/2015</b> |  | <input type="checkbox"/> To be Mailed |  |
|-----------------------------------------------------------------------------------|--|--|--|---------------------------------------------------|--|----------------------------------|--|---------------------------------------|--|

|                                                                                                                 |                                                                                                                                                                                                                               |              |  |  |           |          |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|--|-----------|----------|--|--|--|--|
| ENTITY: <input type="checkbox"/> LARGE <input checked="" type="checkbox"/> SMALL <input type="checkbox"/> MICRO |                                                                                                                                                                                                                               |              |  |  |           |          |  |  |  |  |
| <b>APPLICATION AS FILED – PART I</b>                                                                            |                                                                                                                                                                                                                               |              |  |  |           |          |  |  |  |  |
| (Column 1)                                                                                                      |                                                                                                                                                                                                                               | (Column 2)   |  |  |           |          |  |  |  |  |
| FOR                                                                                                             | NUMBER FILED                                                                                                                                                                                                                  | NUMBER EXTRA |  |  | RATE (\$) | FEE (\$) |  |  |  |  |
| <input type="checkbox"/> BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))                                             | N/A                                                                                                                                                                                                                           | N/A          |  |  | N/A       |          |  |  |  |  |
| <input type="checkbox"/> SEARCH FEE<br>(37 CFR 1.16(k), (i), or (m))                                            | N/A                                                                                                                                                                                                                           | N/A          |  |  | N/A       |          |  |  |  |  |
| <input type="checkbox"/> EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))                                       | N/A                                                                                                                                                                                                                           | N/A          |  |  | N/A       |          |  |  |  |  |
| TOTAL CLAIMS<br>(37 CFR 1.16(i))                                                                                | minus 20 =                                                                                                                                                                                                                    | *            |  |  | X \$ =    |          |  |  |  |  |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                                                          | minus 3 =                                                                                                                                                                                                                     | *            |  |  | X \$ =    |          |  |  |  |  |
| <input type="checkbox"/> APPLICATION SIZE FEE<br>(37 CFR 1.16(s))                                               | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |              |  |  |           |          |  |  |  |  |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))                                      |                                                                                                                                                                                                                               |              |  |  |           |          |  |  |  |  |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                                       |                                                                                                                                                                                                                               |              |  |  | TOTAL     |          |  |  |  |  |

|                                         |                                                                                          |                                  |       |                                    |               |                 |  |           |                     |  |  |
|-----------------------------------------|------------------------------------------------------------------------------------------|----------------------------------|-------|------------------------------------|---------------|-----------------|--|-----------|---------------------|--|--|
| <b>APPLICATION AS AMENDED – PART II</b> |                                                                                          |                                  |       |                                    |               |                 |  |           |                     |  |  |
| (Column 1)                              |                                                                                          | (Column 2)                       |       | (Column 3)                         |               |                 |  |           |                     |  |  |
| <b>AMENDMENT</b>                        | <b>07/29/2016</b>                                                                        | CLAIMS REMAINING AFTER AMENDMENT |       | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |                 |  | RATE (\$) | ADDITIONAL FEE (\$) |  |  |
|                                         | Total (37 CFR 1.16(i))                                                                   | * 20                             | Minus | ** 20                              | = 0           |                 |  | x \$40 =  | 0                   |  |  |
|                                         | Independent (37 CFR 1.16(h))                                                             | * 4                              | Minus | *** 4                              | = 0           |                 |  | x \$210 = | 0                   |  |  |
|                                         | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                           |                                  |       |                                    |               |                 |  |           |                     |  |  |
|                                         | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |                                  |       |                                    |               |                 |  |           |                     |  |  |
|                                         |                                                                                          |                                  |       |                                    |               | TOTAL ADD'L FEE |  | <b>0</b>  |                     |  |  |
| (Column 1)                              |                                                                                          | (Column 2)                       |       | (Column 3)                         |               |                 |  |           |                     |  |  |
| <b>AMENDMENT</b>                        |                                                                                          | CLAIMS REMAINING AFTER AMENDMENT |       | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |                 |  | RATE (\$) | ADDITIONAL FEE (\$) |  |  |
|                                         | Total (37 CFR 1.16(i))                                                                   | *                                | Minus | **                                 | =             |                 |  | X \$ =    |                     |  |  |
|                                         | Independent (37 CFR 1.16(h))                                                             | *                                | Minus | ***                                | =             |                 |  | X \$ =    |                     |  |  |
|                                         | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                           |                                  |       |                                    |               |                 |  |           |                     |  |  |
|                                         | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |                                  |       |                                    |               |                 |  |           |                     |  |  |
|                                         |                                                                                          |                                  |       |                                    |               | TOTAL ADD'L FEE |  |           |                     |  |  |

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".  
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE  
TAMMY D. MCBETH BROWN

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

|                        |                           |
|------------------------|---------------------------|
| Application Number     | 14/844,650                |
| Filing Date            | September 3, 2015         |
| First Named Inventor   | Marc Levy                 |
| Title                  | FLUID DISPERSION ASSEMBLY |
| Art Unit               | 3752                      |
| Examiner Name          | Hwu, Davis D.             |
| Attorney Docket Number | 1.106A.15                 |

### SIGNATURE of Applicant or Patent Practitioner

|                                                    |                     |                     |                |
|----------------------------------------------------|---------------------|---------------------|----------------|
| Signature                                          | /John Fulton, Jr./  | Date (Optional)     | August 1, 2016 |
| Name                                               | John Fulton, Jr.    | Registration Number | 46716          |
| Title (if Applicant is a juristic entity)          | Attorney of Record  |                     |                |
| Applicant Name (if Applicant is a juristic entity) | Air Essentials Inc. |                     |                |

**NOTE:** This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.



\*Total of 2 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

## POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

|                    |                   |
|--------------------|-------------------|
| Application Number | Filing Date       |
| 14/844,650         | September 3, 2015 |

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☒ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

OR

04219

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

|                         |       |     |  |  |
|-------------------------|-------|-----|--|--|
| Firm or Individual Name |       |     |  |  |
| Address                 |       |     |  |  |
| City                    | State | Zip |  |  |
| Country                 |       |     |  |  |
| Telephone               | Email |     |  |  |

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Air Essentials Inc.

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

### SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

|           |                                                                                     |                 |          |
|-----------|-------------------------------------------------------------------------------------|-----------------|----------|
| Signature |  | Date (Optional) | 8/1/2016 |
| Name      | Spencer T. Levy                                                                     |                 |          |
| Title     | President                                                                           |                 |          |

**NOTE:** Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## Electronic Acknowledgement Receipt

|                                             |                              |
|---------------------------------------------|------------------------------|
| <b>EFS ID:</b>                              | 26510259                     |
| <b>Application Number:</b>                  | 14844650                     |
| <b>International Application Number:</b>    |                              |
| <b>Confirmation Number:</b>                 | 3887                         |
| <b>Title of Invention:</b>                  | FLUID DISPERSION ASSEMBLY    |
| <b>First Named Inventor/Applicant Name:</b> | Marc Levy                    |
| <b>Customer Number:</b>                     | 4219                         |
| <b>Filer:</b>                               | John Fulton/Monica Rodriguez |
| <b>Filer Authorized By:</b>                 | John Fulton                  |
| <b>Attorney Docket Number:</b>              | 1.106A.15                    |
| <b>Receipt Date:</b>                        | 01-AUG-2016                  |
| <b>Filing Date:</b>                         | 03-SEP-2015                  |
| <b>Time Stamp:</b>                          | 15:43:29                     |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)  |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description          | File Name                               | File Size(Bytes)/<br>Message Digest               | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|-----------------------------------------|---------------------------------------------------|------------------|------------------|
| 1               | Miscellaneous Incoming Letter | 2016_08_01_Cert_EFS_POA_Filed_1106A.pdf | 12074<br>9ebf1d789736f7be9434ea28c7c9a034bd9d26ba | no               | 1                |

### Warnings:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                |                                                    |    |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|----------------------------------------------------|----|---|
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                |                                                    |    |   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Power of Attorney | 2016_08_01_POA_Filed_1106A.pdf | 142598<br>d141d844c28b1f932076cf08d31ba122f013fb21 | no | 2 |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                                |                                                    |    |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                |                                                    |    |   |
| Total Files Size (in bytes):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                | 154672                                             |    |   |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p> |                   |                                |                                                    |    |   |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Air Essentials Inc.

Inventors: Marcy Levy, Craig Huck, and Steven Semoff

Serial No.: 14/844,650

Filing Date: September 3, 2015

For: FLUID DISPERSION ASSEMBLY

Confirmation No. 3887  
Customer No. 04219  
Hwu, Davis D., Examiner  
Group Art Unit 3752

2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

CERTIFICATE OF EFS-WEB TRANSMISSION

I HEREBY CERTIFY that this correspondence is being transmitted to the U.S. Patent and Trademark Office (USPTO) via the USPTO electronic filing system (EFS-Web) this 1st day of August, 2016.

Respectfully Submitted,

MALLOY & MALLOY, P.L.  
Attorneys for Applicant  
2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129  
(305)858-8000

By: /John Fulton, Jr./  
John Fulton, Jr.  
Reg. No. 46,716  
Email: patents@malloylaw.com

Date: August 1, 2016



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NUMBER | FILING OR 371(C) DATE | FIRST NAMED APPLICANT | ATTY. DOCKET NO./TITLE |
|--------------------|-----------------------|-----------------------|------------------------|
| 14/844,650         | 09/03/2015            | Marc Levy             | 1.106A.15              |

**CONFIRMATION NO. 3887**

**POA ACCEPTANCE LETTER**

4219  
MALLOY & MALLOY  
2800 S.W. THIRD AVENUE  
HISTORIC CORAL WAY  
MIAMI, FL 33129



Date Mailed: 08/10/2016

**NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 08/01/2016.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/agizaw/

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                         |                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Doc Code: DIST.E.FILE</b><br><b>Document Description: Electronic Terminal Disclaimer - Filed</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                         | PTO/SB/26<br>U.S. Patent and Trademark Office<br>Department of Commerce |
| Electronic Petition Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT</b> |                                                                         |
| Application Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 14844650                                                                                |                                                                         |
| Filing Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 03-Sep-2015                                                                             |                                                                         |
| First Named Inventor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Marc Levy                                                                               |                                                                         |
| Attorney Docket Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.106A.15                                                                               |                                                                         |
| Title of Invention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FLUID DISPERSION ASSEMBLY                                                               |                                                                         |
| <input checked="" type="checkbox"/> Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action<br><br><input checked="" type="checkbox"/> This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                         |                                                                         |
| Owner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Percent Interest                                                                        |                                                                         |
| Air Essentials Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 100%                                                                                    |                                                                         |
| <p>The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)</p> <p>9126215</p> <p>as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.</p> <p>In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:</p> <ul style="list-style-type: none"> <li>- expires for failure to pay a maintenance fee;</li> <li>- is held unenforceable;</li> <li>- is found invalid by a court of competent jurisdiction;</li> <li>- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;</li> <li>- has all claims canceled by a reexamination certificate;</li> <li>- is reissued; or</li> <li>- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.</li> </ul> <p><input checked="" type="radio"/> Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.</p> |                                                                                         |                                                                         |

- ☐ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

- ☒ Small Entity
- ☐ Micro Entity
- ☐ Regular Undiscounted

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

- ☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application
- Registration Number 46716
- ☐ A sole inventor
- ☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application
- ☐ A joint inventor; all of whom are signing this request

|           |                    |
|-----------|--------------------|
| Signature | /John Fulton, Jr./ |
| Name      | John Fulton, Jr.   |

\*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).  
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

## Electronic Patent Application Fee Transmittal

|                                                    |                              |                 |               |                             |
|----------------------------------------------------|------------------------------|-----------------|---------------|-----------------------------|
| <b>Application Number:</b>                         | 14844650                     |                 |               |                             |
| <b>Filing Date:</b>                                | 03-Sep-2015                  |                 |               |                             |
| <b>Title of Invention:</b>                         | FLUID DISPERSION ASSEMBLY    |                 |               |                             |
| <b>First Named Inventor/Applicant Name:</b>        | Marc Levy                    |                 |               |                             |
| <b>Filer:</b>                                      | John Fulton/Monica Rodriguez |                 |               |                             |
| <b>Attorney Docket Number:</b>                     | 1.106A.15                    |                 |               |                             |
| Filed as Small Entity                              |                              |                 |               |                             |
| <b>Filing Fees for Utility under 35 USC 111(a)</b> |                              |                 |               |                             |
| <b>Description</b>                                 | <b>Fee Code</b>              | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in USD(\$)</b> |
| <b>Basic Filing:</b>                               |                              |                 |               |                             |
| Statutory or Terminal Disclaimer                   | 2814                         | 1               | 160           | 160                         |
| <b>Pages:</b>                                      |                              |                 |               |                             |
| <b>Claims:</b>                                     |                              |                 |               |                             |
| <b>Miscellaneous-Filing:</b>                       |                              |                 |               |                             |
| <b>Petition:</b>                                   |                              |                 |               |                             |
| <b>Patent-Appeals-and-Interference:</b>            |                              |                 |               |                             |
| <b>Post-Allowance-and-Post-Issuance:</b>           |                              |                 |               |                             |

| Description        | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------|----------|----------|--------|----------------------|
| Extension-of-Time: |          |          |        |                      |
| Miscellaneous:     |          |          |        |                      |
| Total in USD (\$)  |          |          |        | 160                  |

Doc Code: DISQ.E.FILE

Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 14844650

Filing Date: 03-Sep-2015

Applicant/Patent under Reexamination: Levy et al.

Electronic Terminal Disclaimer filed on August 11, 2016

☒ APPROVED

**This patent is subject to a terminal disclaimer**

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

## Electronic Acknowledgement Receipt

|                                             |                              |
|---------------------------------------------|------------------------------|
| <b>EFS ID:</b>                              | 26619460                     |
| <b>Application Number:</b>                  | 14844650                     |
| <b>International Application Number:</b>    |                              |
| <b>Confirmation Number:</b>                 | 3887                         |
| <b>Title of Invention:</b>                  | FLUID DISPERSION ASSEMBLY    |
| <b>First Named Inventor/Applicant Name:</b> | Marc Levy                    |
| <b>Customer Number:</b>                     | 4219                         |
| <b>Filer:</b>                               | John Fulton/Monica Rodriguez |
| <b>Filer Authorized By:</b>                 | John Fulton                  |
| <b>Attorney Docket Number:</b>              | 1.106A.15                    |
| <b>Receipt Date:</b>                        | 11-AUG-2016                  |
| <b>Filing Date:</b>                         | 03-SEP-2015                  |
| <b>Time Stamp:</b>                          | 17:08:07                     |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)  |

### Payment information:

|                                          |             |
|------------------------------------------|-------------|
| Submitted with Payment                   | yes         |
| Payment Type                             | Credit Card |
| Payment was successfully received in RAM | \$ 160      |
| RAM confirmation Number                  | 3817        |
| Deposit Account                          |             |
| Authorized User                          |             |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

| <b>File Listing:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                          |                                          |                  |                  |
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| Document Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Document Description                 | File Name                | File Size(Bytes)/<br>Message Digest      | Multi Part /.zip | Pages (if appl.) |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Electronic Terminal Disclaimer-Filed | eTerminal-Disclaimer.pdf | 33332                                    | no               | 2                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                          | 5b6e9d43833e4030e76217cd009fce7e97f9191c |                  |                  |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |                          |                                          |                  |                  |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                          |                                          |                  |                  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fee Worksheet (SB06)                 | fee-info.pdf             | 30390                                    | no               | 2                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                          | a2b62308508824609f786e57bb697f584e0d1cd5 |                  |                  |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |                          |                                          |                  |                  |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                          |                                          |                  |                  |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                          | 63722                                    |                  |                  |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> |                                      |                          |                                          |                  |                  |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Air Essentials Inc.

Inventors: Marc Levy, Craig Huck and Steven Semoff

Serial No.: 14/844,650

Filing Date: September 3, 2015

For: FLUID DISPERSION ASSEMBLY

Confirmation No. 3887  
Customer No. 04219  
Hwu, Davis D., Examiner  
Group Art Unit 3752

2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL AMENDMENT

In response to the Office Action of June 8, 2016, applicant provides the following:

**REMARKS** begin on page **2** of this paper.

**REMARKS**

This Supplemental Amendment is submitted in full response to the outstanding Office Action dated June 8, 2016 wherein claims 1 through 20 stand rejected on the ground of nonstatutory double patenting as being unpatentable over U.S. Patent No. 9,126,215 to Applicant herein.

An attempt to file an eTerminal Disclaimer concurrent with the original Amendment filed on July 29, 2016, was unsuccessful due to an issue with the Power of Attorney. The Power of Attorney issue has been resolved, and an eTerminal Disclaimer is filed concurrently with this Supplemental Amendment, therefore, the rejection of claims 1 through 20 on the ground of nonstatutory double patenting is fully traversed.

Based on the above, this application is believed to be in clear condition for allowance and such action is respectfully solicited.

Respectfully submitted,

MALLOY & MALLOY, P.L.  
Attorneys for Applicant  
2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129  
(305) 858-8000

By: /John Fulton, Jr./  
John Fulton, Jr.  
Reg. No. 46,716  
Email: patents@malloylaw.com

Date: August 11, 2016

## Electronic Acknowledgement Receipt

|                                             |                              |
|---------------------------------------------|------------------------------|
| <b>EFS ID:</b>                              | 26619583                     |
| <b>Application Number:</b>                  | 14844650                     |
| <b>International Application Number:</b>    |                              |
| <b>Confirmation Number:</b>                 | 3887                         |
| <b>Title of Invention:</b>                  | FLUID DISPERSION ASSEMBLY    |
| <b>First Named Inventor/Applicant Name:</b> | Marc Levy                    |
| <b>Customer Number:</b>                     | 4219                         |
| <b>Filer:</b>                               | John Fulton/Monica Rodriguez |
| <b>Filer Authorized By:</b>                 | John Fulton                  |
| <b>Attorney Docket Number:</b>              | 1.106A.15                    |
| <b>Receipt Date:</b>                        | 11-AUG-2016                  |
| <b>Filing Date:</b>                         | 03-SEP-2015                  |
| <b>Time Stamp:</b>                          | 17:10:41                     |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)  |

### Payment information:

|                        |    |
|------------------------|----|
| Submitted with Payment | no |
|------------------------|----|

### File Listing:

| Document Number | Document Description          | File Name                             | File Size(Bytes)/<br>Message Digest                       | Multi Part /.zip | Pages (if appl.) |
|-----------------|-------------------------------|---------------------------------------|-----------------------------------------------------------|------------------|------------------|
| 1               | Miscellaneous Incoming Letter | 2016_08_11_Cert_EFS_AMD_1<br>106A.pdf | 12114<br><br>c0a08ee404c60da238934454a9329cc17b2<br>c7955 | no               | 1                |

### Warnings:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |                                        |                                                   |            |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------|---------------------------------------------------|------------|---|
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |                                        |                                                   |            |   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                            | 2016_08_11_Amendent_TD_Filed_1106A.pdf | 15324<br>bfc63a611b7bd3e737844c8031257d3eb69e72a1 | yes        | 2 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Multipart Description/PDF files in .zip description</b> |                                        |                                                   |            |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Document Description</b>                                |                                        | <b>Start</b>                                      | <b>End</b> |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Amendment/Req. Reconsideration-After Non-Final Reject      |                                        | 1                                                 | 1          |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Applicant Arguments/Remarks Made in an Amendment           |                                        | 2                                                 | 2          |   |
| <b>Warnings:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |                                        |                                                   |            |   |
| <b>Information:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |                                        |                                                   |            |   |
| <b>Total Files Size (in bytes):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |                                        | 27438                                             |            |   |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> <b>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> <b>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> <b>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</b></p> |                                                            |                                        |                                                   |            |   |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Air Essentials Inc.

Inventors: Marcy Levy, Craig Huck, and Steven Semoff

Serial No.: 14/844,650

Filing Date: September 3, 2015

For: FLUID DISPERSION ASSEMBLY

Confirmation No. 3887  
Customer No. 04219  
Hwu, Davis D., Examiner  
Group Art Unit 3752

2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

CERTIFICATE OF EFS-WEB TRANSMISSION

I HEREBY CERTIFY that this correspondence is being transmitted to the U.S. Patent and Trademark Office (USPTO) via the USPTO electronic filing system (EFS-Web) this 11 day of August, 2016.

Respectfully Submitted,

MALLOY & MALLOY, P.L.  
Attorneys for Applicant  
2800 S.W. Third Avenue  
Historic Coral Way  
Miami, Florida 33129  
(305)858-8000

By: /John Fulton, Jr./  
John Fulton, Jr.  
Reg. No. 46,716  
Email: patents@malloylaw.com

Date: August 11, 2016



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

4219 7590 08/30/2016  
MALLOY & MALLOY  
2800 S.W. THIRD AVENUE  
HISTORIC CORAL WAY  
MIAMI, FL 33129

EXAMINER

HWU, DAVIS D

ART UNIT

PAPER NUMBER

3744

DATE MAILED: 08/30/2016

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

14/844,650

09/03/2015

Marc Levy

1.106A.15

3887

TITLE OF INVENTION: FLUID DISPERSION ASSEMBLY

| APPLN. TYPE    | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL         | \$480         | \$0                 | \$0                  | \$480            | 11/30/2016 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

4219 7590 08/30/2016  
**MALLOY & MALLOY**  
2800 S.W. THIRD AVENUE  
HISTORIC CORAL WAY  
MIAMI, FL 33129

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

|                    |
|--------------------|
| (Depositor's name) |
| (Signature)        |
| (Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 14/844,650      | 09/03/2015  | Marc Levy            | 1.106A.15           | 3887             |

TITLE OF INVENTION: FLUID DISPERSION ASSEMBLY

| APPLN. TYPE    | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL         | \$480         | \$0                 | \$0                  | \$480            | 11/30/2016 |

| EXAMINER     | ART UNIT | CLASS-SUBCLASS |
|--------------|----------|----------------|
| HWU, DAVIS D | 3744     | 239-427000     |

|                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</b><br><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.<br><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. <b>Use of a Customer Number is required.</b> | <b>2. For printing on the patent front page, list</b><br>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____<br>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____<br>3 _____ |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)**

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

#### **4a. The following fee(s) are submitted:**

- ☐ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies \_\_\_\_\_

#### **4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)**

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

#### **5. Change in Entity Status (from status indicated above)**

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29  
☐ Applicant asserting small entity status. See 37 CFR 1.27  
☐ Applicant changing to regular undiscounted fee status.

**NOTE:** Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

**NOTE:** If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

**NOTE:** Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

**NOTE:** This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Typed or printed name \_\_\_\_\_ Registration No. \_\_\_\_\_



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 14/844,650      | 09/03/2015  | Marc Levy            | 1.106A.15           | 3887             |

4219 7590 08/30/2016  
MALLOY & MALLOY  
2800 S.W. THIRD AVENUE  
HISTORIC CORAL WAY  
MIAMI, FL 33129

|          |
|----------|
| EXAMINER |
|----------|

HWU, DAVIS D

|          |              |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

3744

DATE MAILED: 08/30/2016

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

### Privacy Act Statement

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

|                               |                                      |                                    |                                                  |
|-------------------------------|--------------------------------------|------------------------------------|--------------------------------------------------|
| <b>Notice of Allowability</b> | <b>Application No.</b><br>14/844,650 | <b>Applicant(s)</b><br>LEVY ET AL. |                                                  |
|                               | <b>Examiner</b><br>Davis Hwu         | <b>Art Unit</b><br>3744            | <b>AIA (First Inventor to File) Status</b><br>No |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment of August 11, 2016.  
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on \_\_\_\_\_.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_\_; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1-20. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see [http://www.uspto.gov/patents/init\\_events/pph/index.jsp](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

**Certified copies:**

- a) ☐ All    b) ☐ Some    \*c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |                                                                                                            |                                                                           |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)                                           | 5. <input type="checkbox"/> Examiner's Amendment/Comment                  |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 7. <input type="checkbox"/> Other _____.                                  |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____.                     |                                                                           |

/Davis Hwu/  
Primary Examiner, Art Unit 3744

|                                                                                                              |                                                |                                                                   |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------|
| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>14844650 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>LEVY ET AL. |
|                                                                                                              | <b>Examiner</b><br><br>DAVIS HWU               | <b>Art Unit</b><br><br>3752                                       |

| CPC- SEARCHED                                     |        |          |
|---------------------------------------------------|--------|----------|
| Symbol                                            | Date   | Examiner |
| B05B 1/08, 11/3042, 7/066, 7/2491, 17/0646, 17/04 | 6/5/16 | dh       |

| CPC COMBINATION SETS - SEARCHED |      |          |
|---------------------------------|------|----------|
| Symbol                          | Date | Examiner |
|                                 |      |          |

| US CLASSIFICATION SEARCHED |                         |        |          |
|----------------------------|-------------------------|--------|----------|
| Class                      | Subclass                | Date   | Examiner |
| 239                        | 427, 337, 338, 426, 433 | 6/5/16 | dh       |

| SEARCH NOTES   |         |          |
|----------------|---------|----------|
| Search Notes   | Date    | Examiner |
| east           | 6/5/16  | dh       |
| search updated | 8/25/16 | dh       |

| INTERFERENCE SEARCH     |                         |         |          |
|-------------------------|-------------------------|---------|----------|
| US Class/<br>CPC Symbol | US Subclass / CPC Group | Date    | Examiner |
|                         | all of above            | 8/25/16 | dh       |

|  |                                          |
|--|------------------------------------------|
|  | /D.H./<br>Primary Examiner.Art Unit 3752 |
|--|------------------------------------------|

|                                                                                                                 |                                            |                                                               |  |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|--|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>14844650 | <b>Applicant(s)/Patent Under Reexamination</b><br>LEVY ET AL. |  |
|                                                                                                                 | <b>Examiner</b><br>DAVIS HWU               | <b>Art Unit</b><br>3744                                       |  |

| CPC    |  |    |      |      |            |
|--------|--|----|------|------|------------|
| Symbol |  |    |      | Type | Version    |
| B05B   |  | 7  | 2494 | F    | 2013-01-01 |
| B05B   |  | 7  | 2491 | I    | 2013-01-01 |
| B05B   |  | 15 | 0406 | I    | 2013-01-01 |
| A61L   |  | 9  | 14   | I    | 2013-01-01 |
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| CPC Combination Sets |      |     |         |         |
|----------------------|------|-----|---------|---------|
| Symbol               | Type | Set | Ranking | Version |
|                      |      |     |         |         |
|                      |      |     |         |         |

|                                               |            |                              |                   |
|-----------------------------------------------|------------|------------------------------|-------------------|
| NONE                                          |            | <b>Total Claims Allowed:</b> |                   |
|                                               |            | 20                           |                   |
| (Assistant Examiner)                          | (Date)     |                              |                   |
| /DAVIS HWU/<br>Primary Examiner.Art Unit 3744 | 08/25/2016 | O.G. Print Claim(s)          | O.G. Print Figure |
| (Primary Examiner)                            | (Date)     | 1                            | 1                 |





# **PART B - FEE(S) TRANSMITTAL**

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**  
**or Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

4219 7590 08/30/2016  
**MALLOY & MALLOY**  
**2800 S.W. THIRD AVENUE**  
**HISTORIC CORAL WAY**  
**MIAMI, FL 33129**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

|                    |
|--------------------|
| (Depositor's name) |
| (Signature)        |
| (Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 14/844,650      | 09/03/2015  | Marc Levy            | L106A.15            | 3887             |

TITLE OF INVENTION: FLUID DISPERSION ASSEMBLY

| APPLN. TYPE    | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | SMALL         | \$480         | \$0                 | \$0                  | \$480            | 11/30/2016 |

| EXAMINER     | ART UNIT | CLASS-SUBCLASS |
|--------------|----------|----------------|
| HWU, DAVIS D | 3744     | 239-427000     |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,  
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Malloy & Malloy, P.L.  
2 \_\_\_\_\_  
3 \_\_\_\_\_

### **3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)**

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Air Essentials Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Miami, Florida

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

### **4a. The following fee(s) are submitted:**

- ☒ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies \_\_\_\_\_

### **4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)**

- ☐ A check is enclosed.  
☒ Payment by credit card. Form PTO-2038 is attached.  
☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

### **5. Change in Entity Status (from status indicated above)**

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29  
☐ Applicant asserting small entity status. See 37 CFR 1.27  
☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature John Fulton, Jr.  
Typed or printed name John Fulton, Jr.

Date November 17, 2016

Registration No. 46,716

## Electronic Patent Application Fee Transmittal

|                                                       |                              |                 |               |                                 |
|-------------------------------------------------------|------------------------------|-----------------|---------------|---------------------------------|
| <b>Application Number:</b>                            | 14844650                     |                 |               |                                 |
| <b>Filing Date:</b>                                   | 03-Sep-2015                  |                 |               |                                 |
| <b>Title of Invention:</b>                            | FLUID DISPERSION ASSEMBLY    |                 |               |                                 |
| <b>First Named Inventor/Applicant Name:</b>           | Marc Levy                    |                 |               |                                 |
| <b>Filer:</b>                                         | John Fulton/Monica Rodriguez |                 |               |                                 |
| <b>Attorney Docket Number:</b>                        | 1.106A.15                    |                 |               |                                 |
| Filed as Small Entity                                 |                              |                 |               |                                 |
| <b>Filing Fees for    Utility under 35 USC 111(a)</b> |                              |                 |               |                                 |
| <b>Description</b>                                    | <b>Fee Code</b>              | <b>Quantity</b> | <b>Amount</b> | <b>Sub-Total in<br/>USD(\$)</b> |
| <b>Basic Filing:</b>                                  |                              |                 |               |                                 |
| <b>Pages:</b>                                         |                              |                 |               |                                 |
| <b>Claims:</b>                                        |                              |                 |               |                                 |
| <b>Miscellaneous-Filing:</b>                          |                              |                 |               |                                 |
| <b>Petition:</b>                                      |                              |                 |               |                                 |
| <b>Patent-Appeals-and-Interference:</b>               |                              |                 |               |                                 |
| <b>Post-Allowance-and-Post-Issuance:</b>              |                              |                 |               |                                 |
| UTILITY APPL ISSUE FEE                                | 2501                         | 1               | 480           | 480                             |

| Description        | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------|----------|----------|--------|----------------------|
| Extension-of-Time: |          |          |        |                      |
| Miscellaneous:     |          |          |        |                      |
| Total in USD (\$)  |          |          |        | 480                  |

## Electronic Acknowledgement Receipt

|                                             |                              |
|---------------------------------------------|------------------------------|
| <b>EFS ID:</b>                              | 27540593                     |
| <b>Application Number:</b>                  | 14844650                     |
| <b>International Application Number:</b>    |                              |
| <b>Confirmation Number:</b>                 | 3887                         |
| <b>Title of Invention:</b>                  | FLUID DISPERSION ASSEMBLY    |
| <b>First Named Inventor/Applicant Name:</b> | Marc Levy                    |
| <b>Customer Number:</b>                     | 4219                         |
| <b>Filer:</b>                               | John Fulton/Monica Rodriguez |
| <b>Filer Authorized By:</b>                 | John Fulton                  |
| <b>Attorney Docket Number:</b>              | 1.106A.15                    |
| <b>Receipt Date:</b>                        | 17-NOV-2016                  |
| <b>Filing Date:</b>                         | 03-SEP-2015                  |
| <b>Time Stamp:</b>                          | 12:16:11                     |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)  |

### Payment information:

|                                          |                       |
|------------------------------------------|-----------------------|
| Submitted with Payment                   | yes                   |
| Payment Type                             | CARD                  |
| Payment was successfully received in RAM | \$480                 |
| RAM confirmation Number                  | 111716INTEFSW12165100 |
| Deposit Account                          |                       |
| Authorized User                          |                       |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

| File Listing:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                               |                                         |                  |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------|-----------------------------------------|------------------|------------------|
| Document Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Document Description          | File Name                                     | File Size(Bytes)/<br>Message Digest     | Multi Part /.zip | Pages (if appl.) |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Miscellaneous Incoming Letter | 2016_11_17_EFS_CERT_Issue_Fee_Filed_1106A.pdf | 12139                                   | no               | 1                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                               | 3433ca7e27df0f7552d69b6773538638dd09f5c |                  |                  |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                               |                                         |                  |                  |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                               |                                         |                  |                  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                               | 6137bbfcb888d538f74032cd3c25677197c5985 |                  |                  |
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| The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                               |                                         |                  |                  |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                               |                                         |                  |                  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fee Worksheet (SB06)          | fee-info.pdf                                  | 30478                                   | no               | 2                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                               | 349f1c35f0e42265e83be1000dc42fd15f5984f |                  |                  |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                               |                                         |                  |                  |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                               |                                         |                  |                  |
| Total Files Size (in bytes):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                               | 257309                                  |                  |                  |
| <p><b>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> |                               |                                               |                                         |                  |                  |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Air Essentials Inc.

Inventors: Marc Levy, Craig Huck, and Steven Semoff

Serial No.: 14/844,650

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For: FLUID DISPERSION ASSEMBLY

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CERTIFICATE OF EFS-WEB TRANSMISSION

I HEREBY CERTIFY that this correspondence is being transmitted via the U.S. Patent and Trademark Office (USPTO) electronic filing system (EFS-Web) to the USPTO this 17 day of November, 2016.

Respectfully Submitted,

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## ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)** (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

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