CLAIMS:

1. A gas sampler device comprising:

a top plate having a top section and a downward turned side wall with an inner surface and an outer surface, wherein the inner surface is straight and substantially orthogonal to the top section and the outer surface is concaved inward, wherein the top plate has a rounded lip between the side wall and the top section, and wherein the side wall has a sharp lip opposite the rounded lip, and a diameter of the rounded lip and a diameter of the sharp lip being the same; and

a bottom plate having a top surface and a receiving portion at the top surface for receiving a dish, the top surface of said bottom plate mating with the side wall of said top plate.

2. The gas sampler device of claim 1, the rounded lip is configured to engage a user's finger.

3. The gas sampler device of claim 1, wherein the top plate is metal.

~~4. The gas sampler device of claim 1, wherein the top plate is non-compressible.~~

~~5. The gas sampler device of claim 1, wherein the side wall of said top plate is an unthreaded shaft.~~

~~6. The gas sampler device of claim 1, wherein the top plate has a weight greater than 1 pound.~~

4~~7~~. The gas sampler device of claim 1, wherein the top plate has an outer diameter of 4.5 inches.

5~~8~~. The gas sampler device of claim 1, wherein the outer surface of the downward turned side of the top plate is concaved inward with a radius of curvature of 0.337 inches.

~~9. The gas sampler device of claim 1, wherein a ratio of an outer diameter of the top plate to a radius of curvature of the outer surface of the downward turned side of the top plate is 13:14 to 1.~~

6~~10~~. The gas sampler device of claim 1, wherein the rounded lip of the top plate is curved and projects outwardly from the side wall.

~~11. The gas sampler device of claim 1, wherein the top plate has a width and the side wall has a height such that a length of the width of the top plate is substantially greater than a length of the height of the side wall, thereby defining a wide grip.~~

7~~12~~. A top plate for a gas sampler device, comprising:

an outer circumference;

a concaved outer wall that curves inward around the outer circumference;

a rounded lip between a top section and the outer wall, the rounded lip extending around the outer circumference; and

a sharp lip extending around the outer circumference opposite from the rounded lip, wherein a diameter of the rounded lip and a diameter of the sharp lip are the same.

8~~13~~. The top plate of claim 7~~12~~, wherein the top plate is metal.

~~14. The top plate of claim 12, wherein the outer surface is non-compressible.~~

~~15. The top plate of claim 12, further comprising~~

~~an inner surface opposite the concaved outer wall, wherein the inner surface is an unthreaded shaft.~~

~~16. The top plate of claim 12, wherein the top plate has a weight greater than 1 pound.~~

917. The top plate of claim 712, wherein the top plate has an outer diameter of 4.5 inches.

1018. The top plate of claim 712, wherein the concaved outer wall has a radius of curvature of 0.337 inches.

~~19. The top plate of claim 12, wherein a ratio of an outer diameter of the top plate to a radius of curvature of the concaved outer wall is 13-14 to 1.~~

1120. The top plate of claim 712, further comprising

the rounded lip is curved and projects outwardly from the outer wall.

~~21. The top plate of claim 12, wherein a length of a width of the top plate is substantially greater than a length of a height of the outer wall, thereby defining a wide grip.~~

1222. A gas sampler device for use in a controlled environment, comprising:

a top plate configured for use in the controlled environment, the top plate having a top section and a downward turned side wall with an inner surface and an outer surface, wherein the inner surface is straight and orthogonal to the top section and the outer surface is concaved inward, wherein the top plate has a rounded lip between the side wall and the top section, and wherein the side wall has a sharp lip opposite the rounded lip, and a diameter of the rounded lip and a diameter of the sharp lip being the same; and

a bottom plate having a top surface and a receiving portion at the top surface for receiving a dish, the top surface of said bottom plate mating with the side wall of said top plate.

1323. The gas sampler device of claim 1222, wherein the controlled environment is a clean room.

1424. A method for providing a gas sampler device in a controlled environment, comprising the steps of:

providing a top plate configured for use in the controlled environment, the top plate having a top section and a downward turned side wall with an inner surface and an outer surface, wherein the inner surface is straight and orthogonal to the top section and the outer surface is concaved inward, wherein the top plate has a rounded lip between the side wall and the top section, and wherein the side wall has a sharp lip opposite the rounded lip, and a diameter of the rounded lip and a diameter of the sharp lip being the same; and

providing a bottom plate having a top surface and a receiving portion at the top surface for receiving a dish, the top surface of said bottom plate mating with the side wall of said top plate.

1525. The method of claim 1424, wherein

the gas sampler device is configured for use by a user wearing a glove and/or hood.