Claims

1. A portable fire extinguisher comprising:

a chamber filled with fire suppressant material;

a stationary replaceable gas cartridge within an enclosing cover that is accessible from an exterior of said chamber, but does not enclose said chamber;

said enclosing cover has a cover lock;

an opening mechanism that is at least partially located within said chamber that allows for opening said replaceable gas cartridge;

a tamper mechanism that must be disturbed to allow operation of said opening mechanism for opening said replaceable gas cartridge;

said tamper mechanism indicates that said tamper mechanism has been disturbed with or without operation of said opening mechanism;

when said stationary replaceable gas cartridge is opened by raising said opening mechanism such that liquefied gas from within said stationary replaceable gas cartridge enters from said stationary replaceable gas cartridge directly into said chamber filled with fire suppressant material;

when said liquefied gas enters said chamber, said liquefied gas converts into gas outside of said gas cartridge, but inside of said chamber and pushes said fire suppressant material into an exit passage connected between said chamber to an exit port, and

said exit passage has a valve that is separate from said opening mechanism to control flow of said fire suppressant media out of said exit port.

2. The portable fire extinguisher according to claim 1, wherein said stationary replaceable gas cartridge is retained within a top housing of said portable fire extinguisher with a downward facing seal that is within said chamber.

3. The portable fire extinguisher according to claim 1, wherein said stationary replaceable gas cartridge exists essentially within an interior of said fire extinguisher.

4. The portable fire extinguisher according to claim 1, wherein said tamper mechanism includes a separate rotational knob mechanism.

5. The portable fire extinguisher according to claim 4, wherein rotating said separate rotational knob mechanism is separate from said opening mechanism that opens said stationary replaceable gas cartridge.

6. The portable fire extinguisher according to claim 1, wherein said tamper mechanism is destructively altered from said tampering.

7. The portable fire extinguisher according to claim 1, further including a siphon tube fabricated from at least two parts having a first part that is an elongated hollow tube, and at least a second part being an end cap.

8. The portable fire extinguisher according to claim 1, wherein said opening mechanism is configured to puncture said replaceable gas cartridge.

9. The portable fire extinguisher according to claim 1, further includes a tamper lock.

10. The portable fire extinguisher according to claim 9, wherein said tamper lock is symmetric

for use with either hand of an operator.

11. The portable fire extinguisher according to claim 9, wherein said tamper lock includes a rotatable knob that blocks activation of said opening mechanism.

12. The portable fire extinguisher according to claim 1, further includes a trigger mechanism that is operably connected to said opening mechanism.

13. The portable fire extinguisher according to claim 12, wherein said trigger mechanism is locked by said rotatable knob.

14. The portable fire extinguisher according to claim 13, wherein when said trigger mechanism is unlocked, access to said replaceable gas cartridge is blocked, thereby preventing inadvertent puncturing.

15. The portable fire extinguisher according to claim 13, wherein said opening mechanism includes a puncture pin that is operably connected to said trigger mechanism.

16. The portable fire extinguisher according to claim 1, wherein said replaceable gas cartridge is oriented with a puncture seal facing downward into said fire suppressant material within said chamber.

17. The portable fire extinguisher according to claim 1, wherein said replaceable gas cartridge expels liquefied gas into said chamber and said liquefied gas vaporizes within said chamber.

18. The portable fire extinguisher according to claim 1, further includes at least one fluffing blade wherein when said at least one fluffing blade is moved, said at least one fluffing blade disturbs caking of said fire suppressant material.

19. The portable fire extinguisher according to claim 18, wherein said at least one fluffing blade further include a hollow siphon tube for said fire suppressant material to enter into said hollow siphon tube and out of said chamber.

20. The portable fire extinguisher according to claim 19, wherein said hollow siphon tube has a rotary seal.

21. The portable fire extinguisher according to claim 20, wherein said hollow siphon tube is fabricated from at least two parts having a first part that is an elongated hollow tube, and at least a second part being an end cap.

22. The portable fire extinguisher according to claim 1, wherein said tamper mechanism includes a tamper indicator having at least one tab that shears to release said tamper indicator from said tamper mechanism.