CLAIMS

1. A magnetic pouch attachment mechanism, comprising:

one or more magnetic pouch mounts comprising,

an alignment plate,

one or more magnetic areas disposed within the alignment plate,

one or more mounting apertures disposed in the alignment plate,

one or more latch apertures disposed in the alignment plate, and

a latch comprising a latch handle and one or more latch teeth, each latch tooth protrudes into each latch aperture when the latch is in a retention position and each latch tooth is retracted out of each latch aperture when the latch is in a release position, and the latch handle transitions the latch between the retention position and the release position; and

a pouch to removably couple with the one or more magnetic pouch mounts such that when the pouch is placed in proximity to the one or more magnetic pouch mounts, an attractive magnetic force is exerted between the pouch and the one or more magnetic pouch mounts such that the pouch aligns with and couples to the one or more magnetic pouch mounts, the pouch comprises,

a container defining an interior compartment and having an opening for receiving items into the interior compartment,

a flap hingedly coupled to the container and sized to cover the opening and at least a portion of an outer surface of the container,

means for securing the flap to the outer surface of the container, and

a mounting bracket coupled to the container and comprising,

one or more bracket magnetic areas disposed within the mounting bracket and configured to induce the attractive magnetic force with the one or more magnetic areas,

one or more alignment pegs configured to removably couple with the one or more mounting apertures of the magnetic pouch mount, and

one or more catches configured to removably couple with the one or more latch apertures of the magnetic pouch mount.

2. The magnetic pouch attachment mechanism of claim 1, wherein the flap further comprises a flexible window to allow viewing of the items in the interior compartment.

3. The magnetic pouch attachment mechanism of claim 1, wherein the container further comprises a flexible window to allow viewing of the items in the interior compartment.

4. The magnetic pouch attachment mechanism of claim 1, wherein the one or more pouches is a pouch configured to removably couple with half of one magnetic pouch mount, a single pouch configured to removably couple with a single magnetic pouch mount, a long pouch configured to removably couple with two magnetic pouch mounts positioned horizontally side-by-side, or a tall pouch configured to removably couple with two magnetic pouch mounts positioned vertically one above the other.

5. The magnetic pouch attachment mechanism of claim 4, wherein the one or more magnetic pouch mounts is an upper magnetic pouch mount positioned vertically above a lower magnetic pouch mount, and the tall pouch further comprises a latch adapter slidably coupled to the mounting bracket and configured to simultaneously actuate a first latch on the upper magnetic pouch mount and a second latch on the lower magnetic pouch mount to release the tall pouch from the upper magnetic pouch mount and the lower magnetic pouch mount simultaneously.

6. The magnetic pouch attachment mechanism of claim 1, wherein each catch further comprises a rounded surface to aid in aligning each catch with each latch aperture and transition each latch tooth from the retention position to the release position when the catch slidably couples with each latch aperture, and the one or more alignment pegs further comprises the rounded surface to aid in aligning each alignment peg with each mounting aperture.

7. The magnetic pouch attachment mechanism of claim 1, wherein the one or more magnetic pouch mounts are coupled to a vehicle wall, a vehicle structure, a building wall, a building structure, a cot, a chair, a bag, or a cart.

8. The magnetic pouch attachment mechanism of claim 1, wherein the one or more pouches and the one or more magnetic pouch mounts are crash-ready.

9. A method of utilizing a pouch assembly, comprising:

moving a pouch into proximity of one or more magnetic pouch mounts, each one or more magnetic pouch mounts comprises:

an alignment plate,

one or more magnetic areas disposed within the alignment plate,

one or more mounting apertures disposed in the alignment plate,

one or more latch apertures disposed in the alignment plate, and

a latch comprising a latch handle and one or more latch teeth, each latch tooth protrudes into each latch aperture when the latch is in a retention position and each latch tooth is retracted out of each latch aperture when the latch is in a release position, and the latch handle transitions the latch between the retention position and the release position, and

the pouch comprises:

a container defining an interior compartment and having an opening for receiving items into the interior compartment,

a flap hingedly coupled to the container and sized to cover the opening and at least a portion of an outer surface of the container,

means for securing the flap to the outer surface of the container, and

a mounting bracket coupled to the container and comprising,

one or more bracket magnetic areas disposed within the mounting bracket and configured to induce an attractive magnetic force with the one or more magnetic areas,

one or more alignment pegs configured to removably couple with the one or more mounting apertures of the magnetic pouch mount, and

one or more catches configured to removably couple with the one or more latch apertures of the magnetic pouch mount; and

allowing the attractive magnetic force between the pouch and the one or more magnetic pouch mounts to draw and removably couple the pouch to the one or more magnetic pouch mounts.

10. The method of claim 9, further comprising transitioning the latch from the retention position to the release position to remove the pouch from the one or more magnetic pouch mounts.

11. A pouch retrofit kit, comprising:

one or more magnetic pouch mounts comprising,

an alignment plate coupled to a surface,

one or more magnetic areas disposed within the alignment plate,

one or more mounting apertures disposed in the alignment plate,

one or more latch apertures disposed in the alignment plate, and

a latch comprising a latch handle and one or more latch teeth, each latch tooth protrudes into each latch aperture when the latch is in a retention position and each latch tooth is retracted out of each latch aperture when the latch is in a release position, and the latch handle transitions the latch between the retention position and the release position;

a mounting bracket coupled to a pre-existing pouch, comprising,

one or more bracket magnetic areas disposed within the mounting bracket and configured to induce an attractive magnetic force with the one or more magnetic areas,

one or more alignment pegs configured to removably couple with the one or more mounting apertures of the magnetic pouch mount, and

one or more catches configured to removably couple with the one or more latch apertures of the magnetic pouch mount; and

wherein when the mounting bracket is placed in proximity to the one or more magnetic pouch mounts, the attractive magnetic force is exerted between the mounting bracket and the one or more magnetic pouch mounts such that the mounting bracket aligns with and couples to the one or more magnetic pouch mounts.

12. The pouch retrofit kit of claim 11, wherein the catch further comprises a rounded surface to aid in aligning each catch with each latch aperture and transition each latch tooth from the retention position to the release position when each catch slidably couples with each latch aperture, and the one or more alignment pegs further comprises the rounded surface to aid in aligning each alignment peg with each mounting aperture.

13. The pouch retrofit kit of claim 11, wherein the one or more magnetic pouch mounts are coupled to a vehicle wall, a vehicle structure, a building wall, a building structure, a cot, a chair, a bag, or a cart.

14. The pouch retrofit kit of claim 11, wherein the mounting bracket and the one or more magnetic pouch mounts are crash-ready.

15. A magnetic pouch attachment mechanism, comprising:
one or more magnetic pouch mounts comprising,
an alignment plate,
one or more magnetic areas disposed within the alignment plate,
one or more mounting apertures disposed in the alignment plate,
one or more latch apertures disposed in the alignment plate; and
a pouch to removably couple with the one or more magnetic pouch mounts such that when the pouch is placed in proximity to the one or more magnetic pouch mounts, an attractive magnetic force is exerted between the pouch and the one or more magnetic pouch mounts such that the pouch aligns with and couples to the one or more magnetic pouch mounts, the pouch comprises,
a container defining an interior compartment and having an opening for receiving items into the interior compartment,
a flap hingedly coupled to the container and sized to cover the opening and at least a portion of an outer surface of the container,
means for securing the flap to the outer surface of the container, and
a mounting bracket coupled to the container and comprising,

one or more bracket magnetic areas disposed within the mounting bracket and configured to induce the attractive magnetic force with the one or more magnetic areas,

one or more alignment pegs configured to removably couple with the one or more mounting apertures of the magnetic pouch mount, and

one or more catches configured to removably couple with the one or more latch apertures of the magnetic pouch mount.

16. The magnetic pouch attachment mechanism of claim 15, wherein the flap further comprises a flexible window to allow viewing of the items in the interior compartment.

17. The magnetic pouch attachment mechanism of claim 15, wherein the container further comprises a flexible window to allow viewing of the items in the interior compartment.

18. The magnetic pouch attachment mechanism of claim 15, wherein the one or more pouches is a pouch configured to removably couple with half of one magnetic pouch mount, a single pouch configured to removably couple with a single magnetic pouch mount, a long pouch configured to removably couple with two magnetic pouch mounts positioned horizontally side-by-side, or a tall pouch configured to removably couple with two magnetic pouch mounts positioned vertically one above the other.

19. The magnetic pouch attachment mechanism of claim 18, wherein the one or more magnetic pouch mounts is an upper magnetic pouch mount positioned vertically above a lower magnetic pouch mount, and the tall pouch further comprises a latch adapter slidably coupled to the mounting bracket and configured to simultaneously actuate a first latch on the upper magnetic pouch mount and a second latch on the lower magnetic pouch mount to release the tall pouch from the upper magnetic pouch mount and the lower magnetic pouch mount simultaneously.

20. The magnetic pouch attachment mechanism of claim 15, wherein each catch further comprises a rounded surface to aid in aligning each catch with each latch aperture and

transition each latch tooth from the retention position to the release position when the catch slidably couples with each latch aperture, and the one or more alignment pegs further comprises the rounded surface to aid in aligning each alignment peg with each mounting aperture.

21. The magnetic pouch attachment mechanism of claim 15, wherein the one or more magnetic pouch mounts are coupled to a vehicle wall, a vehicle structure, a building wall, a building structure, a cot, a chair, a bag, or a cart.

22. The magnetic pouch attachment mechanism of claim 15, wherein each of the one or more magnetic pouch mounts further comprising a latch with one or more latch teeth, each latch tooth protrudes into each latch aperture when the latch is in a retention position and each latch tooth is retracted out of each latch aperture when the latch is in a release position, and wherein the one or more pouches and the one or more magnetic pouch mounts are crash-ready.

23. A method of utilizing a pouch assembly, comprising:

moving a pouch into proximity of one or more magnetic pouch mounts, each one or more magnetic pouch mounts comprises:

an alignment plate,

one or more magnetic areas disposed within the alignment plate,

one or more mounting apertures disposed in the alignment plate,

one or more latch apertures disposed in the alignment plate, and

the pouch comprises:

a container defining an interior compartment and having an opening for receiving items into the interior compartment,

a flap hingedly coupled to the container and sized to cover the opening and at least a portion of an outer surface of the container,

means for securing the flap to the outer surface of the container, and

a mounting bracket coupled to the container and comprising,

one or more bracket magnetic areas disposed within the mounting bracket and configured to induce an attractive magnetic force with the one or more magnetic areas,

one or more alignment pegs configured to removably couple with the one or more mounting apertures of the magnetic pouch mount, and

one or more catches configured to removably couple with the one or more latch apertures of the magnetic pouch mount; and

allowing the attractive magnetic force between the pouch and the one or more magnetic pouch mounts to draw and removably couple the pouch to the one or more magnetic pouch mounts.

24. A pouch retrofit kit, comprising:

one or more magnetic pouch mounts comprising,

an alignment plate coupled to a surface,

one or more magnetic areas disposed within the alignment plate,

one or more mounting apertures disposed in the alignment plate, and

one or more latch apertures disposed in the alignment plate;

a mounting bracket coupled to a pre-existing pouch, comprising,

one or more bracket magnetic areas disposed within the mounting bracket and configured to induce an attractive magnetic force with the one or more magnetic areas,

one or more alignment pegs configured to removably couple with the one or more mounting apertures of the magnetic pouch mount, and

one or more catches configured to removably couple with the one or more latch apertures of the magnetic pouch mount; and

wherein when the mounting bracket is placed in proximity to the one or more magnetic pouch mounts, the attractive magnetic force is exerted between the mounting bracket and the one or more magnetic pouch mounts such that the mounting bracket aligns with and couples to the one or more magnetic pouch mounts.

25. The pouch retrofit kit of claim 24, wherein the catch further comprises a rounded surface to aid in aligning each catch with each latch aperture and transition each latch tooth from the retention position to the release position when each catch slidably couples with each latch aperture, and the one or more alignment pegs further comprises the rounded surface to aid in aligning each alignment peg with each mounting aperture.

26. The pouch retrofit kit of claim 24, wherein the one or more magnetic pouch mounts are coupled to a vehicle wall, a vehicle structure, a building wall, a building structure, a cot, a chair, a bag, or a cart.

27. The pouch retrofit kit of claim 24, wherein each of the one or more magnetic pouch mounts further comprising a latch with one or more latch teeth, each latch tooth protrudes into each latch aperture when the latch is in a retention position and each latch tooth is retracted out of each latch aperture when the latch is in a release position, and wherein the mounting bracket and the one or more magnetic pouch mounts are crash-ready.