CLAIMS:

~~1.~~ 1. A mobile refreshment cart, comprising:

~~an open~~a refreshment chamber ~~exposed to an environment surrounding the mobile refreshment cart and~~ configured to receive refreshment containers therein;

a thermally conductive plate having a first surface ~~facing~~defining an interior of the ~~open~~ refreshment chamber, ~~and having~~ a second surface opposite to the first surface, and a thickness of the thermally conductive plate from the first surface to the second surface;

a thermoelectric cooler coupled to, and directly contacting, the second surface of the thermally conductive plate, wherein the thermoelectric cooler is configured to extract heat from the refreshment chamber through the thermally conductive plate ~~through the second surface of the thermally conductive plate; and~~;

a fan configured to urge an air flow over a portion of the thermoelectric cooler and to ~~the~~an environment surrounding the mobile refreshment cart, such that the air flow extracts the heat from the portion of the thermoelectric cooler and expels the heat to the environment~~.~~; and

~~2. The mobile refreshment cart of claim 1, comprising~~ a container in which the ~~open~~ refreshment chamber, the thermally conductive plate, the thermoelectric cooler, and the fan are disposed, wherein the container comprises a container dividing wall disposed adjacent to the second surface of the thermally conductive plate~~.~~

~~3. The mobile refreshment cart of claim 2~~, wherein the container dividing wall comprises an opening through which the thermoelectric cooler extends, and wherein the second surface of the thermally conductive plate and the container dividing wall are separated from each other by an air gap configured to block conductive thermal coupling between the thermally conductive plate and the container dividing wall.

~~4.~~ 2. The mobile refreshment cart of ~~claim 1, wherein the thermoelectric cooler comprises a peltier device.~~

~~5.~~ ~~The mobile refreshment cart of~~ claim 1, wherein the portion of the thermoelectric cooler comprises fins disposed between the fan and the second surface of the thermally conductive plate.

~~6.~~ 3. The mobile refreshment cart of claim 1, comprising a ~~Venturi~~ box in which the portion of the thermoelectric cooler and the fan are disposed, wherein the ~~Venturi~~ box is configured to define a fluid passageway through which the fan urges the air flow over the portion of the thermoelectric cooler and to the environment.

~~7.~~ 4. The mobile refreshment cart of claim 1, comprising:

an additional thermoelectric cooler coupled to, and directly contacting, the second surface of the thermally conductive plate, wherein the additional thermoelectric cooler is configured to extract the heat ~~via conduction from~~from the refreshment chamber through the thermally conductive plate; and

an additional fan configured to urge an additional air flow over an additional portion of the additional thermoelectric cooler and to the environment, such that the additional air flow extracts the heat from the additional portion of the additional thermoelectric cooler and expels the heat to the environment.

~~8.~~ 5. The mobile refreshment cart of claim ~~7~~4, wherein the thermoelectric cooler and the additional thermoelectric cooler are spaced from each other by a gap, wherein an inverter is disposed within the gap, and wherein the inverter is configured to receive an alternating current, to convert the alternating current to a direct current, and to provide the direct current to the thermoelectric cooler and the additional thermoelectric cooler.

~~9.~~ 6. The mobile refreshment cart of claim ~~8~~5, comprising:

a thermostat configured to monitor a temperature of the thermoelectric cooler; and

an additional thermostat configured to monitor an additional temperature of the additional thermoelectric cooler.

~~10.~~ 7. The mobile refreshment cart of ~~claim 9~~ claim 6, wherein the inverter is configured to receive data feedback from the thermostat and the additional thermostat, and wherein the inverter is configured to modulate a power input to the thermoelectric cooler, the fan, the additional thermoelectric cooler, the additional fan, or any combination thereof based at least in part on the data feedback.

~~11.~~ 8. The mobile refreshment cart of claim 1, wherein the thermally conductive plate comprises extensions extending from the first surface and defining receptacles configured to receive individual refreshment containers therein.

~~12.~~ 9. The mobile refreshment cart of claim 1, wherein the thermally conductive plate comprises an aluminum alloy material, an approximate half inch height through the thickness from the first surface to the second surface, or both.

~~13.~~ 10. The mobile refreshment cart of claim 1, comprising a frame mounted on a wheel set configured to enable movement of the mobile refreshment cart.

~~14.~~ 11. A cooling assembly for a mobile refreshment cart, wherein the cooling assembly comprises:

a container divided, by a container dividing wall of the container, into an upper container section and a lower container section;

a thermally conductive plate disposed in the upper container section and separated from the container dividing wall by an air gap, wherein a first surface of the thermally conductive plate faces an interior of a refreshment chamber of the cooling assembly disposed in the upper container section and configured to receive refreshment containers, and wherein a second surface of the thermally conductive plate opposite to the first surface faces the air gap; and

a thermoelectric cooler traversing the lower container section and the upper container section by way of an opening in the container dividing wall, wherein the

thermoelectric cooler directly contacts the second surface of the thermally conductive plate and is configured to extract heat from the thermally conductive plate through the second surface.

~~15.~~ 12. The cooling assembly of claim ~~14~~11, comprising a fan configured to urge an air flow over a portion of the thermoelectric cooler and to an environment surrounding the cooling assembly, such that the air flow extracts the heat from the thermoelectric cooler and expels the heat to the environment.

~~16.~~ 13. The cooling assembly of claim ~~15~~12, comprising:

a thermostat configured to monitor a temperature of the thermoelectric cooler; and

an inverter configured to provide a power input to the thermoelectric cooler to drive a thermoelectric effect, and to provide an additional power input to the fan, wherein the inverter is configured to receive data feedback from the thermostat, and the inverter is configured to modulate the power input to the thermoelectric cooler, the additional power input to the fan, or both based at least in part on the data feedback.

~~17.~~ 14. The cooling assembly of claim ~~15~~12, wherein the portion of the thermoelectric cooler comprises fins disposed between the fan and the second surface of the thermally conductive plate.

~~18.~~ 15. The cooling assembly of claim ~~15~~12, comprising a ~~Venturi~~ box in which the portion of the thermoelectric cooler and the fan are disposed, wherein the ~~Venturi~~ box is configured to define a fluid passageway through which the fan urges the air flow over the portion of the thermoelectric cooler and to the environment surrounding the cooling assembly.

~~19.~~ 16. The cooling assembly of claim ~~14~~11, comprising an additional thermoelectric cooler traversing the lower container section and the upper container section by way of

the opening or an additional opening in the container dividing wall, wherein the thermoelectric cooler directly contacts the second surface of the thermally conductive plate and is configured to extract the heat from the thermally conductive plate through the second surface.

~~20.~~ 17. The cooling assembly of ~~claim 19~~16, comprising:

a fan configured to urge an air flow over a portion of the thermoelectric cooler and to an environment surrounding the cooling assembly, such that the air flow extracts the heat from the thermoelectric cooler and expels the heat to the environment; and

an additional fan configured to urge an additional air flow over an additional portion of the additional thermoelectric cooler and to the environment surrounding the cooling assembly, such that the additional air flow extracts the heat from the additional thermoelectric cooler and expels the heat to the environment.

~~21.~~ 18. The cooling assembly of ~~claim 14~~11, wherein the upper container section comprises sidewalls defining the refreshment chamber, and wherein the upper container section comprises an open face configured to expose the refreshment chamber to an environment surrounding the cooling assembly.

~~22.~~ 19. A mobile refreshment cart, comprising:

a refreshment chamber configured to receive refreshment containers;

a thermally conductive plate having a first surface facing, and partially defining, an interior of the refreshment chamber, and a second surface disposed opposite to the first surface;

a thermoelectric cooler coupled to the second surface of the thermally conductive plate and configured to extract heat through the second surface of the thermally conductive plate; ~~and~~

a container dividing wall separated from the second surface of the thermally conductive plate by an air gap, the container dividing wall having an opening through which the thermoelectric cooler extends to enable the thermoelectric cooler to be coupled to the second surface of the thermally conductive plate; and

a fan configured to urge an air flow over a portion of the thermoelectric cooler and to an environment surrounding the mobile refreshment cart, such that the air flow extracts the heat from the portion of the thermoelectric cooler and expels the heat to the environment.

~~23.~~ 20. The mobile refreshment cart of ~~claim 22~~19, comprising a ~~Venturi~~ box in which the portion of the thermoelectric cooler and the fan are disposed, wherein the ~~Venturi~~ box is configured to define a fluid passageway through which the fan urges the air flow over the portion of the thermoelectric cooler and to the environment surrounding the mobile refreshment cart.

~~24.~~ 21. The mobile refreshment cart of ~~claim 22~~19, comprising:

an additional thermoelectric cooler coupled to the second surface of the thermally conductive plate and configured to extract the heat through the second surface of the thermally conductive plate; and

an additional fan configured to urge an additional air flow over an additional portion of the additional thermoelectric cooler and to the environment surrounding the mobile refreshment cart, such that the additional air flow extracts the heat from the thermoelectric cooler and expels the heat to the environment.

22. The mobile refreshment cart of claim 1, comprising:

a panel extending from the thermally conductive plate to the container dividing wall such that the air gap between the thermally conductive plate and the container dividing wall is enclosed from the environment.