



US 20180140120A1

(19) **United States**

(12) **Patent Application Publication**  
**Shackelford**

(10) **Pub. No.: US 2018/0140120 A1**

(43) **Pub. Date: May 24, 2018**

(54) **MODIFIED TUMBLER LID**

*B65D 43/18* (2006.01)

*B65D 81/38* (2006.01)

(71) Applicant: **William Jeffrey Shackelford**, Olive Branch, MS (US)

(52) **U.S. Cl.**

CPC ..... *A47G 19/2272* (2013.01); *A47G 19/2288* (2013.01); *A47G 21/18* (2013.01); *A47G 2200/10* (2013.01); *B65D 43/18* (2013.01); *B65D 81/3865* (2013.01); *B65D 43/02* (2013.01)

(72) Inventor: **William Jeffrey Shackelford**, Olive Branch, MS (US)

(21) Appl. No.: **15/359,661**

(22) Filed: **Nov. 23, 2016**

**Publication Classification**

(51) **Int. Cl.**

*A47G 19/22* (2006.01)

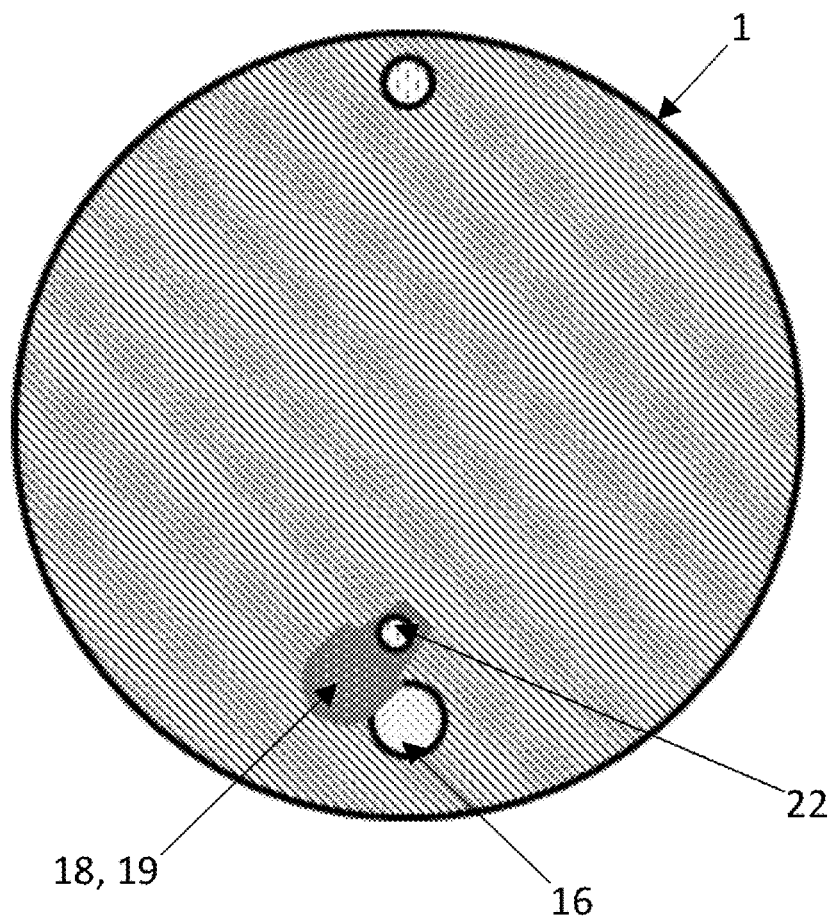
*A47G 21/18* (2006.01)

*B65D 43/02* (2006.01)

(57)

**ABSTRACT**

A tumbler cover designed to work in conjunction with a tumbler lid to the cover prevents debris and insects from flying or crawling onto the lid, makes the lid more spill resistant, and increases thermal efficiency of the tumbler, said cover being made of metallic or non-metallic material and attached to the lid with a connection means or a plurality of magnets.



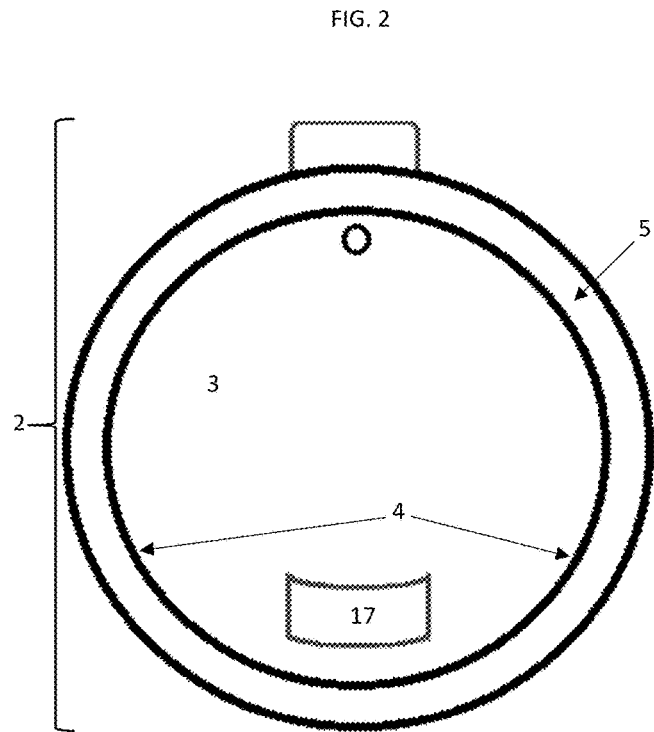
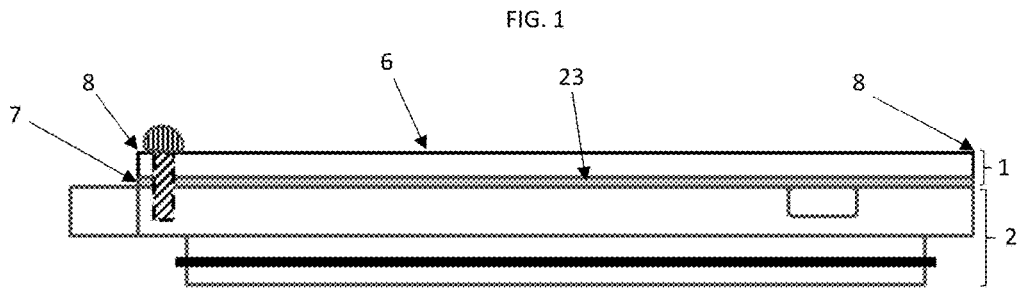


FIG. 3

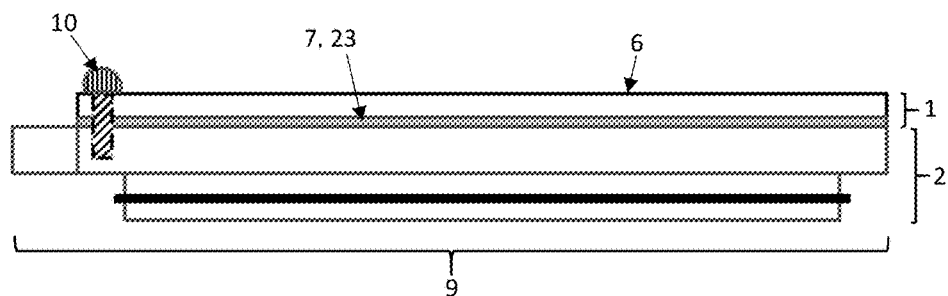


FIG. 4A

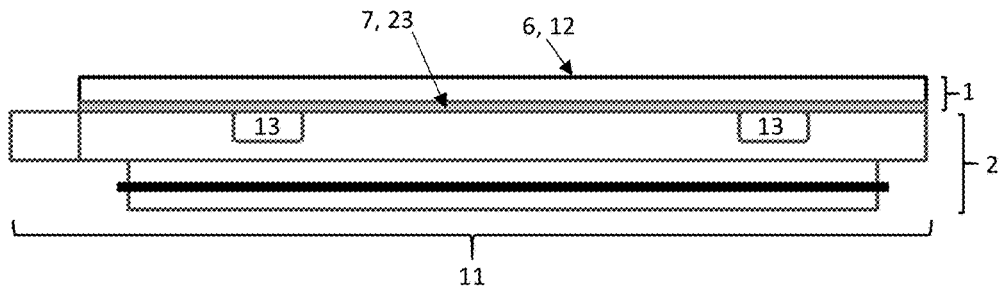
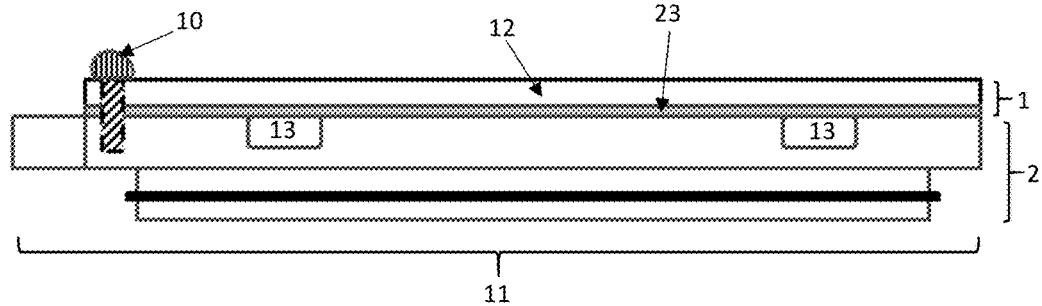


FIG. 4B



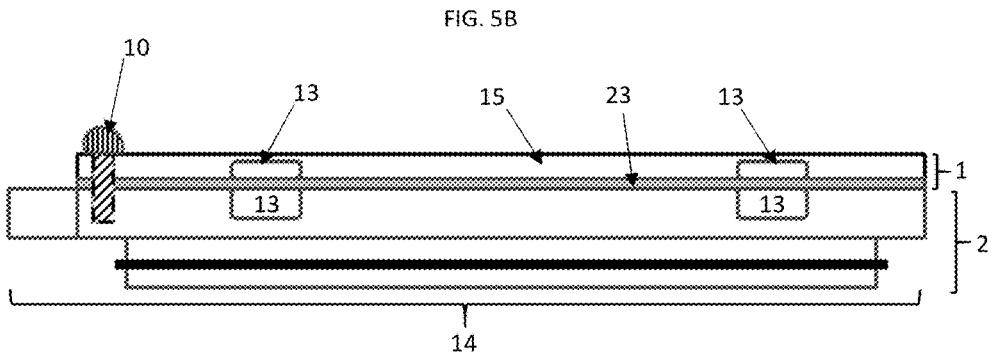
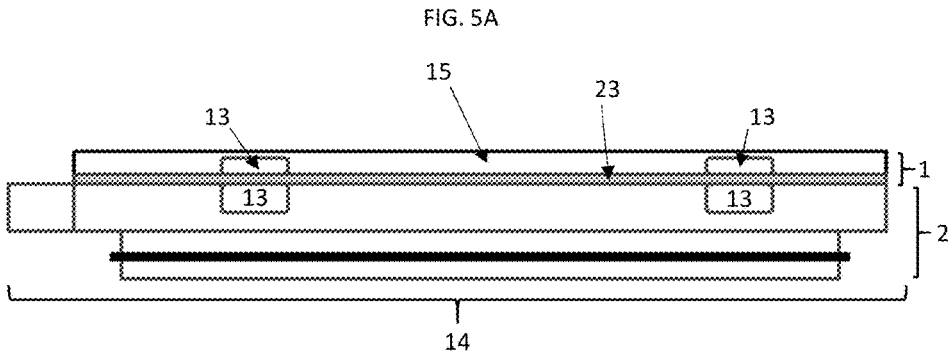


FIG. 6

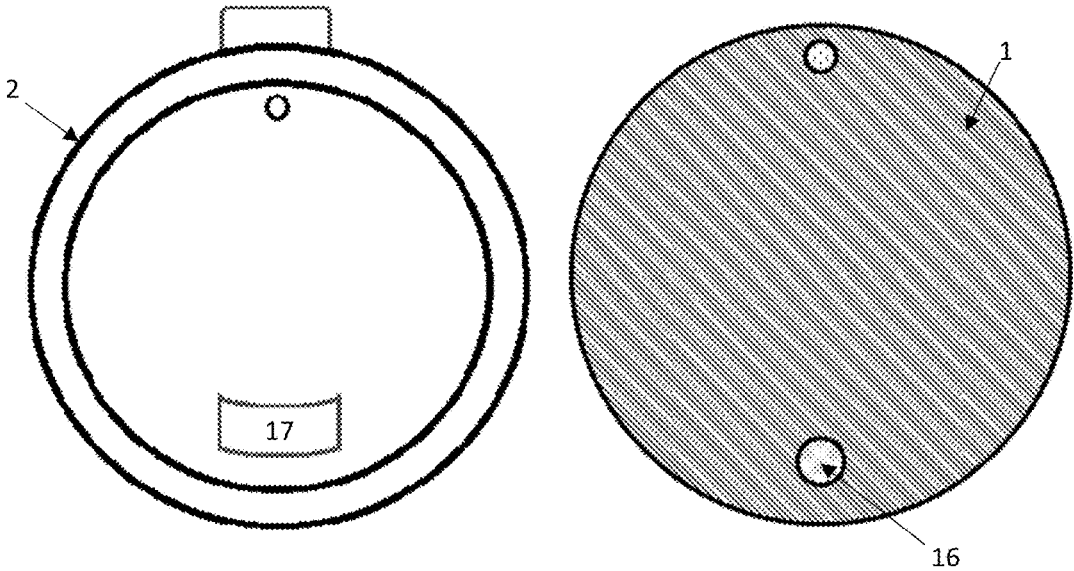


FIG. 7

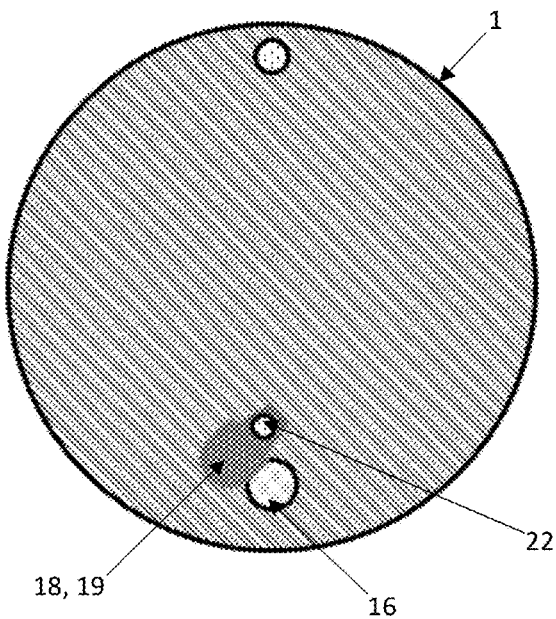
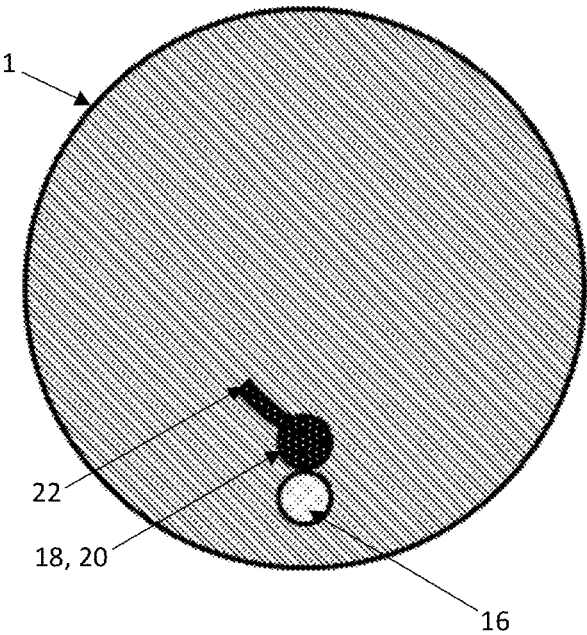


FIG. 8



**MODIFIED TUMBLER LID****CROSS-REFERENCE TO RELATED APPLICATIONS**

[0001] Not Applicable

**STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT**

[0002] Not Applicable

**REFERENCE TO SEQUENCE LISTING, A TABLE, OR A COMPUTER PROGRAM LISTING COMPACT DISC**

[0003] Not Applicable

**DESCRIPTION****Field of the Invention**

[0004] This disclosure relates to a cover for the lid of a tumbler wherein when the cover is positioned over the lid to prevent debris and insects crawling or landing on the lid, which makes the lid more spill resistant by preventing liquid from escaping from the top of the mug as a result of splashing from interior the cup and spillage that results when the tumbler is turned over, increases thermal efficiency of the lid, and improving the overall insulation of the tumbler.

**Background of the Invention**

[0005] Tumblers have become popular for transporting drinks because the tumblers are durable, have a lid that is spill resistant, and may be insulated. The insulated nature of the mugs keep the drink contained within the tumbler appropriately cold or hot longer than if the drink were in an uninsulated container. Tumblers are generally made of metal or plastic and may be double walled with a vacuum seal between the walls which provides the insulation, or single walled where the non-conductive nature of the plastic provides insulation. The lid of tumblers is generally metal or plastic with a rubber gasket seal and with a hole in the through which liquid can be sipped. To put the lid in place, the lid is placed over the top of the metal mug, down into the opening of the mug and the rubber gasket seals the lid in place. Most of the heat that causes the drink to either cool or warm exits or enters through the lid. In addition, the design of the lid allows the drink to collect on the lid, which creates an inviting environment for flying insects to land and leave feces and bacterial behind on. The present disclosure reveals a cover for tumblers that is used in conjunction with the existing design of a lid by being attached either with a connection means or a plurality of magnets so that the cover can be slid over or lifted off to allow the user to drink from the tumbler and then slid back or replaced over the lid. The addition of the cover provides insulation to maintain the drink within the tumbler hot or cold for longer periods of time and because there is no hole through which to drink, splashes and spills are better contained than without the cover, and the additional layer prevents insects from landing on the from which the tumbler is drunk from. The cover may also comprise a straw hole in it to allow a straw to be inserted through the cover, through the hole in the lid, to allow the user access to the beverage within the tumbler without the removal of the cover. If the cover includes a

straw hole, the cover may further comprise a straw hole closure which may be comprised of a slide piece attached to the top of the cover that slides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

[0006] In any of the embodiments of the cover, the cover may further comprise a peg that extends up from the top of the cover to aid in the lifting or moving of the cover.

[0007] This disclosure presents the cover for a tumbler lid with a circular top surface but the tumbler lid and the associated modified tumbler may be of different shapes such as but not limited to square, rectangular or hexagonal.

**SUMMARY OF THE INVENTION**

[0008] The present disclosure reveals a cover to be used in conjunction with a lid for a tumbler wherein the cover fits on top of the lid to prevent debris and insects from reaching the lid, maintaining the drink within the tumbler hot or cold for longer periods of time, and better contain splashes and spills than without the cover.

[0009] In the first embodiment, the cover is capable of entirely covering the top of the lid and is attached to a lid for a tumbler with the use of an attachment means that also acts as a pivot point and allows the cover to be slid over to expose the top of the tumbler lid for drinking purposes and then slid back to re-cover the lid.

[0010] In the second embodiment, the cover comprises a metallic material that a magnet is also attracted to such that the magnet is capable of being attached to and adhere to the cover through the forces generated by the magnet in order to hold the cover in place. In this embodiment, a plurality of magnets are located in a lip of the tumbler lid, the cover is placed over the lid and the magnets hold the cover in place relative to the lid.

[0011] In the third embodiment, the cover comprises a non-metallic material and a plurality of magnets are attached around a perimeter of the cover and around the lip of the lid. When the cover is placed over the lid, a magnet force of the attraction between the plurality of magnets on the cover and the plurality of magnets around the lip of the lid holds the cover in place.

[0012] In each of the revealed embodiments the cover may further comprise a straw hole through the cover such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

[0013] Any of the embodiments of the cover that also comprise a straw hole, may further comprise the cover may further comprise a straw hole closure which may be comprised of a straw hole closure which may be comprised of a slide piece attached to the top of the cover that slides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

[0014] In any of the embodiments of the cover, the cover may further comprise a peg that extends up from the top of the cover to aid in the lifting or moving of the cover.

[0015] In any of the embodiments of the cover, the cover may further comprise a gasket layer as the bottom of the cover, affixed to the top of the cover with an epoxy, to improve the seal between the cover and the lid and to improve insulation.

BRIEF DESCRIPTION OF THE SEVERAL  
VIEWS OF THE DRAWING

- [0016] FIG. 1 is a view cover over a lid for a tumbler;  
 [0017] FIG. 2 is a view of a lid;  
 [0018] FIG. 3 is a view of the first embodiment of the cover;  
 [0019] FIG. 4A is a view of the second embodiment of the cover including the plurality of magnets positioned in the lid;  
 [0020] FIG. 4B is a view of the second embodiment of the cover including the attachment means that hold the cover onto the lid;  
 [0021] FIG. 5A is a view of the third embodiment of the cover including the plurality magnets positioned in the cover and the plurality of magnets in the lip of the lid;  
 [0022] FIG. 5B is a view of the second embodiment of the cover including the attachment means that hold the cover onto the lid;  
 [0023] FIG. 6 is a view of a cover with a straw hole positioned over a lid such that a straw may pass through the cover, through the lid and into a tumbler so that a beverage within the tumbler may be consumed;  
 [0024] FIG. 7 is a view of a cover with a straw hole and a straw hole closure that is a slide piece; and  
 [0025] FIG. 8 is a view of a cover with a straw hole and a straw hole closure that is a flip piece.

DETAILED DESCRIPTION OF THE  
INVENTION

[0026] The present disclosure reveals a cover 1 to go over a lid 2 for a tumbler wherein the lid 2 has a top 3, a plurality of sides 4, a hole 5 in the top and a lip 6 that runs around the upper edge of the plurality of sides 4 such that the plurality of sides 4 are shaped to correspond to the shape of the tumbler into which the cover is inserted, and the size of the lid 2 is such that the lid 2 can be inserted into the top of the tumbler, whereby the lip 5 is designed to come into contact with the top edge of the tumbler and the lip 5 is to prevent the lid 2 from being inserted too far into the tumbler. The cover 1 comprises a top 6, bottom 7 and a plurality of sides 8 said plurality of sides 8 establishing a perimeter of the cover 1. The plurality of sides 8 of the cover 1 has the same dimensions as the lip 5 of the lid 2 and can be placed on the lip 5 to fully overlap the lid 2.

[0027] In the first embodiment 9 of the cover 1, the cover 1 is connected to the lid 2 by means of a connection means 10 which may be a rivet, bolt, pivot pin or similar apparatus and the connection means 10 passes through the top 6 and bottom 7 of the cover 1, and is anchored into the lid 2. To access the lid 2 for drinking purposes, the cover 1 is slid horizontally relative to the plane established by the top 6 and bottom 7 of the cover 1, wherein the connection means 10 acts as a pivot point for the sliding of the cover 1. To again re-establish the cover 1 over the lid 2, the cover 1 is slid horizontally relative to the top 6 and bottom 7 of the cover 2 until the plurality of sides 8 of the cover 1 match the lip 5 of the lid 2.

[0028] In a second embodiment 11 of the cover 1, the cover 1 comprises a metallic material 12 that a magnet is attracted to and a plurality of magnets 13 are attached around the lip 5 of the lid 2, wherein said attachment of the plurality of magnets 13 is by means of an epoxy, weld or wherein the cover is formed around each of the magnets of the plurality

of magnets 13 to hold the plurality of magnets 13 in place. When the cover 1 is placed over the lid 2, a magnet force of the attraction between the metallic material 12 and the plurality of magnets 13 holds the cover 1 in place relative to the lid 2. To remove the cover 1, sufficient force is applied to overcome the attractive force of the plurality magnets 13 relative to the metallic material 12. This embodiment 11 may further comprise a connection means 10 wherein the connection means 10 passes through the top 6 and bottom 7 of the cover 1, and is anchored into the lid 2. To access the lid 2 for drinking purposes, the cover 1 is slid horizontally relative to the plane established by the top 6 and bottom 7 of the cover 1 with sufficient force to overcome the attractive force of the plurality of magnets 13, wherein the connection means 10 is a pivot point for the sliding of the cover 1 relative to the lid 2. To again re-establish the cover 1 over the lid 2, the cover 1 is slid horizontally relative to the top 6 and bottom 7 of the cover 1 until the plurality of sides 8 of the cover 1 match the lip 5 of the lid 2.

[0029] In a third embodiment 14 of the cover 1, the cover 1 comprises a non-magnetic material 15, a plurality of magnets 8 are attached around the plurality of sides 8 of the cover 1 and a plurality of magnets 8 are attached around the lip 5 of the lid 2, wherein the positioning of the plurality of magnets 8 on the cover 1 match the positioning of the plurality of magnets 8 attached around the lip 5 of the lid 2, wherein said attachment is by means of an epoxy, weld or wherein the cover 1 or lid 2 is formed around the magnet to hold the magnet in place. When the cover 1 is placed over the lid 2, a magnet force of the attraction between the plurality of magnets 8 on the cover 1 and the plurality of magnets 8 around the lip 5 of the lid 2 holds the cover 1 in place. To remove the cover 1, sufficient force is applied to overcome the attractive force of attraction between the plurality magnets 8 on the cover 1 and the plurality of magnets 8 on the lip 5 of the lid 1. This embodiment 14 may further comprise a connection means 10 wherein the connection means 10 passes through the top 6 and bottom 7 of the cover 1, and is anchored into the lid 2. To access lid 2 for drinking purposes wherein the connection means 10 is also in place, the cover 1 is slid horizontally relative to the plane established by the top 6 and bottom 7 of the cover 1 with sufficient force to overcome the attractive force between the plurality of magnets 8, wherein the connection means 10 is a pivot point for the sliding of the cover 1. To again re-establish the cover 1 over the lid 2, the cover 1 is slid horizontally relative to the top 6 and bottom 7 of the cover 1 until the plurality of sides 8 of the cover 1 match the lip 5 of the lid 2.

[0030] In each of the revealed embodiments the cover 1 may further comprise a straw hole 16 through the cover 1 such that the straw hole 16 in the cover 1 aligns with a hole 17 in the lid 2 so that a straw may be inserted through the straw hole 16 in the cover 1 and the hole 17 in the lid 2 to allow access to the beverage within the tumbler.

[0031] Any of the embodiments of the cover 1 that comprise a straw hole 16, may further comprise a straw hole closure 18, which may be comprised of a slide piece 19 attached to the top 6 of the cover 1 that slides over to overlap the straw hole 16, or a flip piece 20 that is attached to the top 6 of the cover 1 and flips over to plug the straw hole 16.

[0032] In any of the embodiments of the cover 1, the cover 1 may further comprise a peg 21 that extends up from the top 6 of the cover 1 to aid in the lifting or moving of the cover



1, wherein the peg 21 is attached to the top 6 of the cover by an attachment means 22 such as an adhesive, weld, threading onto the cover 1 or as a formed part of the cover 1.

[0033] In any of the embodiments of the cover 1, the cover 1 may further comprise a gasket layer 23 as the bottom 7 of the cover 1, affixed to the top of the cover with an epoxy, to improve the seal between the cover and the lid and to improve insulation.

What is claimed:

1. A cover to go over a lid for a tumbler wherein when the cover is positioned over the lid, the cover prevents debris and insects from flying or crawling onto the lid, makes the lid more spill resistant, and increases thermal efficiency of the tumbler comprising:

the lid, which comprises a top, sides, a hole in the top and a lip that runs around the upper edge of the sides such that the sides are shaped to correspond to the shape of the tumbler into which the cover is inserted, and the size of the lid is such that the cover can be inserted into the top of the tumbler;

a cover comprising a top, bottom and a plurality of sides said plurality of sides establishing a perimeter of the cover;

wherein the perimeter of the cover matches a size of a lip of the lid;

wherein the plurality of sides of the cover has the same dimensions as the lip of the lid and can be placed on the lip to fully overlap the lid; and

wherein the cover is connected to the lid by means of a connection means, the connection means passes through the top and bottom of the cover, and is anchored into the lid and wherein the connection means is a pivot point for the sliding of the lid.

2. The cover of claim 1 further comprising a straw hole such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

3. The cover of claim 2 wherein the cover may further comprise a straw hole closure wherein the straw hole closure is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

4. The cover of claim 1 wherein the cover further comprises a gasket layer as the bottom of the cover, affixed to the top of the cover with an epoxy, to improve the seal between the cover and the lid and to improve insulation.

5. The cover of claim 4 further comprising a straw hole such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

6. The cover of claim 5 wherein the cover may further comprise a straw hole closure wherein the straw hole closure is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

7. The cover of claim 1, 2, 3, 4, 5, or 6 wherein the cover further comprises a peg that extends up from the top of the cover to aid in the lifting or moving of the cover, which is attached to the top of the cover by an attachment means.

8. A cover to go over a lid for a tumbler wherein when the cover is positioned over the lid, wherein the lid comprises the cover prevents debris and insects from flying or crawling onto the lid, makes the lid more spill resistant, and increases thermal efficiency of the tumbler comprising:

the lid comprising a top, sides, a hole in the top and a lip that runs around the upper edge of the sides such that the sides are shaped to correspond to the shape of the tumbler into which the cover is inserted, and the size of the lid is such that the cover can be inserted into the top of the tumbler;

the cover comprising a top, bottom and a plurality of sides said plurality of sides establishing a perimeter of the cover;

wherein the perimeter of the cover matches a size of a lip of the lid;

wherein the plurality of sides of the cover has the same dimensions as the lip of the lid and can be placed on the lip to fully overlap the lid;

wherein the cover is further comprised of a metallic material that a magnet is attracted to; and

wherein there are a plurality of magnets attached around the lip of the lid such that when the cover is placed over the lid, a magnetic force of the attraction between the metallic material and the plurality of magnets holds the cover in place.

9. The cover of claim 8 further comprising a straw hole such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

10. The cover of claim 9 wherein the cover may further comprise a straw hole closure wherein the straw hole closure is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

11. The cover of claim 8 wherein the cover further comprises a gasket layer as the bottom of the cover, affixed to the top of the cover with an epoxy, to improve the seal between the cover and the lid and to improve insulation.

12. The cover of claim 11 further comprising a straw hole such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

13. The cover of claim 12 wherein the cover may further comprise a straw hole closure wherein the straw hole closure is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

14. The cover of claim 8 wherein the cover is connected to the lid by means of a connection means, the connection means passes through the top and bottom of the cover, and is anchored into the lid and wherein the connection means is a pivot point for the sliding of the lid.

15. The cover of claim 14 further comprising a straw hole such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

16. The cover of claim 15 wherein the cover may further comprise a straw hole closure wherein the straw hole closure

is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

**17.** The cover of claim **14** wherein the cover further comprises a gasket layer as the bottom of the cover, affixed to the top of the cover with an epoxy, to improve the seal between the cover and the lid and to improve insulation.

**18.** The cover of claim **17** further comprising a straw hole such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

**19.** The cover of claim **18** wherein the cover may further comprise a straw hole closure wherein the straw hole closure is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

**20.** The cover of claim **8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, or 19** wherein the cover further comprises a peg that extends up from the top of the cover to aid in the lifting or moving of the cover, which is attached to the top of the cover by an attachment means.

**21.** A cover to go over a lid for a tumbler wherein when the cover is positioned over the lid, the cover prevents debris and insects from flying or crawling onto the lid, makes the lid more spill resistant, and increases thermal efficiency of the tumbler comprising:

the lid comprising a top, sides, a hole in the top and a lip that runs around the upper edge of the sides such that the sides are shaped to correspond to the shape of the tumbler into which the cover is inserted, and the size of the lid is such that the cover can be inserted into the top of the tumbler;

the cover comprising a top, bottom and a plurality of sides said plurality of sides establishing a perimeter of the cover;

wherein the plurality of sides of the cover has the same dimensions as the lip of the lid and can be placed on the lip to fully overlap the lid; and

wherein the cover is further comprised of a non-magnetic material;

wherein there are a plurality of magnets attached around a perimeter of the cover which are attached to the cover;

wherein there are a plurality of magnets positioned around the lip of the lid and which are attached to the lip of the lid;

wherein the plurality of magnets on the lid are co-located with the plurality of magnets on the lid such that each of the magnets of the plurality of magnets of the cover has a corresponding magnet of the plurality of magnets of the and the corresponding magnets are arranged to attract; and

wherein, when the cover is placed over the lid, a magnet force of the attraction between the plurality of magnets on the cover and the plurality of magnets around the lip of the lid holds the cover in place.

**22.** The cover of claim **21** further comprising a straw hole such that the straw hole in the cover aligns with the hole in

the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

**23.** The cover of claim **22** wherein the cover may further comprise a straw hole closure wherein the straw hole closure is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

**24.** The cover of claim **21** wherein the cover further comprises a gasket layer as the bottom of the cover, affixed to the top of the cover with an epoxy, to improve the seal between the cover and the lid and to improve insulation.

**25.** The cover of claim **24** further comprising a straw hole such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

**26.** The cover of claim **25** wherein the cover may further comprise a straw hole closure wherein the straw hole closure is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

**27.** The cover of claim **21** wherein the cover is connected to the lid by means of a connection means, the connection means passes through the top and bottom of the cover, and is anchored into the lid and wherein the connection means is a pivot point for the sliding of the lid.

**28.** The cover of claim **27** further comprising a straw hole such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

**29.** The cover of claim **28** wherein the cover may further comprise a straw hole closure wherein the straw hole closure is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

**30.** The cover of claim **27** wherein the cover further comprises a gasket layer as the bottom of the cover, affixed to the top of the cover with an epoxy, to improve the seal between the cover and the lid and to improve insulation.

**31.** The cover of claim **30** further comprising a straw hole such that the straw hole in the cover aligns with the hole in the lid so that a straw may be inserted through the straw hole in the cover and the hole in the lid to allow access to the beverage within the tumbler.

**32.** The cover of claim **31** wherein the cover may further comprise a straw hole closure wherein the straw hole closure is one of a slide piece attached to the top of the cover that sides over to cover the straw hole, or a flip piece that is attached to the top of the cover and flips over to plug the straw hole.

**33.** The cover of claim **21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, or 32** wherein the cover further comprises a peg that extends up from the top of the cover to aid in the lifting or moving of the cover, which is attached to the top of the cover by an attachment means.

\* \* \* \* \*