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Willett

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(54) **CONFETTI CANNON AND METHOD OF MANUFACTURING AND USE THEREOF**

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A01K 5/00 (2006.01)

(52) **U.S. Cl.**
CPC ***A63H 37/00*** (2013.01)

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USPC 446/475, 483, 491; 124/57, 74, 79
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,149,290 A * 9/1992 Reveen 446/475
5,529,527 A 6/1996 Watkins
5,734,968 A 3/1998 Lay
6,364,737 B1 4/2002 Sterr et al.
8,827,189 B2 * 9/2014 Vanagosoom 239/587.2
8,951,094 B2 * 2/2015 Ropelewski 446/475
2013/0109274 A1 5/2013 Ropelewski

FOREIGN PATENT DOCUMENTS

GB 2503244 6/2012

OTHER PUBLICATIONS

The perfect CO2 continuous flow confetti cannon. http://www.atlspecialfx.com/collections/confetti-blasters/products/ideal-confetti-cannon-continuous-flow.
6.2 Zigmont Magic FX. http://www.effectspecialist.com/confetti.htm.

* cited by examiner

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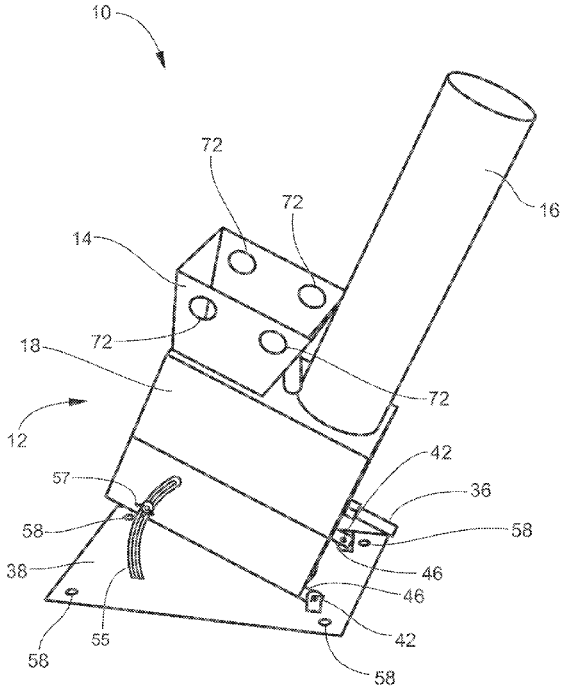
(57) **ABSTRACT**

A confetti cannon includes a one-piece housing. The one-piece housing has a confetti hopper, a launch tube, and a valve housing. The valve housing has an inlet connected to an internal valve. Whereby, the confetti hopper, the launch tube, and the valve housing are integrally formed to create the one-piece housing. The internal valve can be an electric solenoid valve for controlling the confetti cannon remotely.

19 Claims, 7 Drawing Sheets



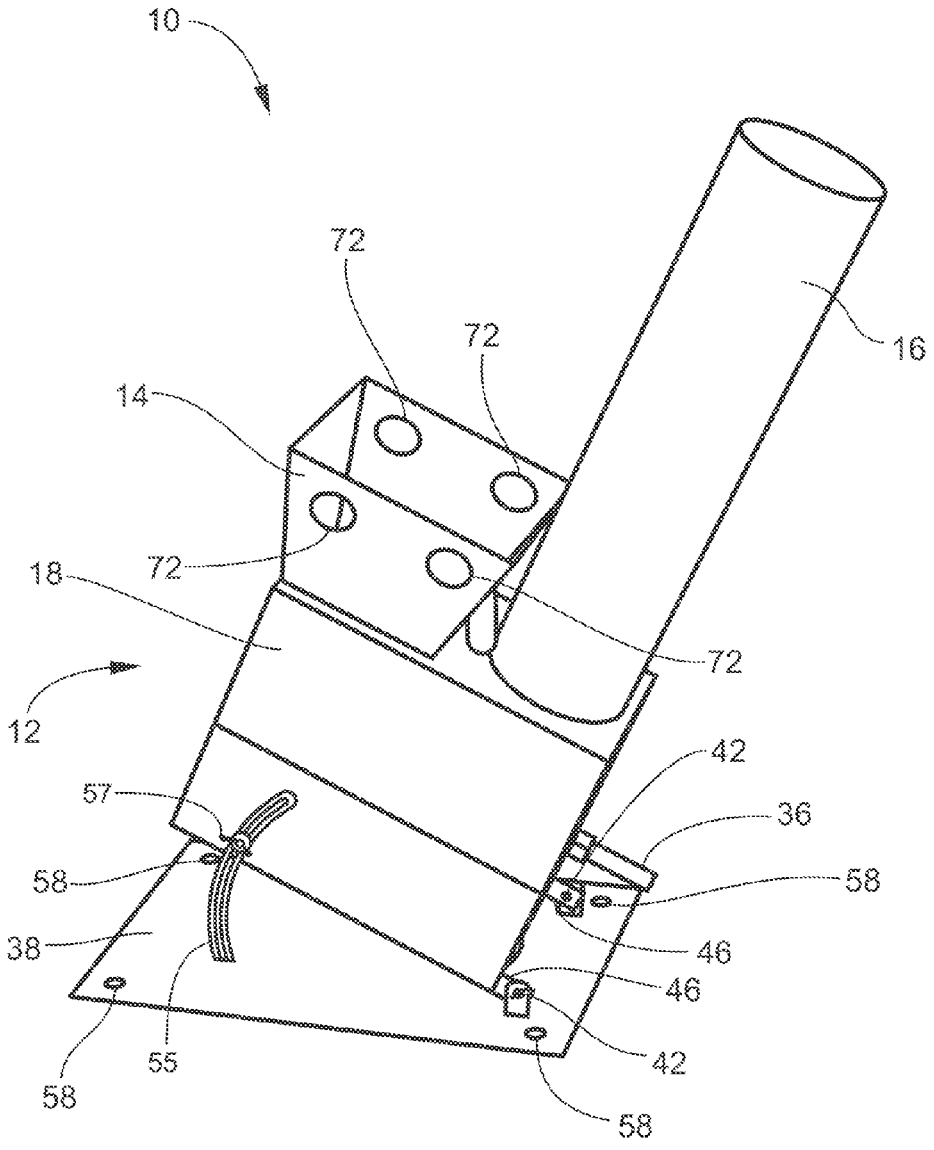


Fig. 1

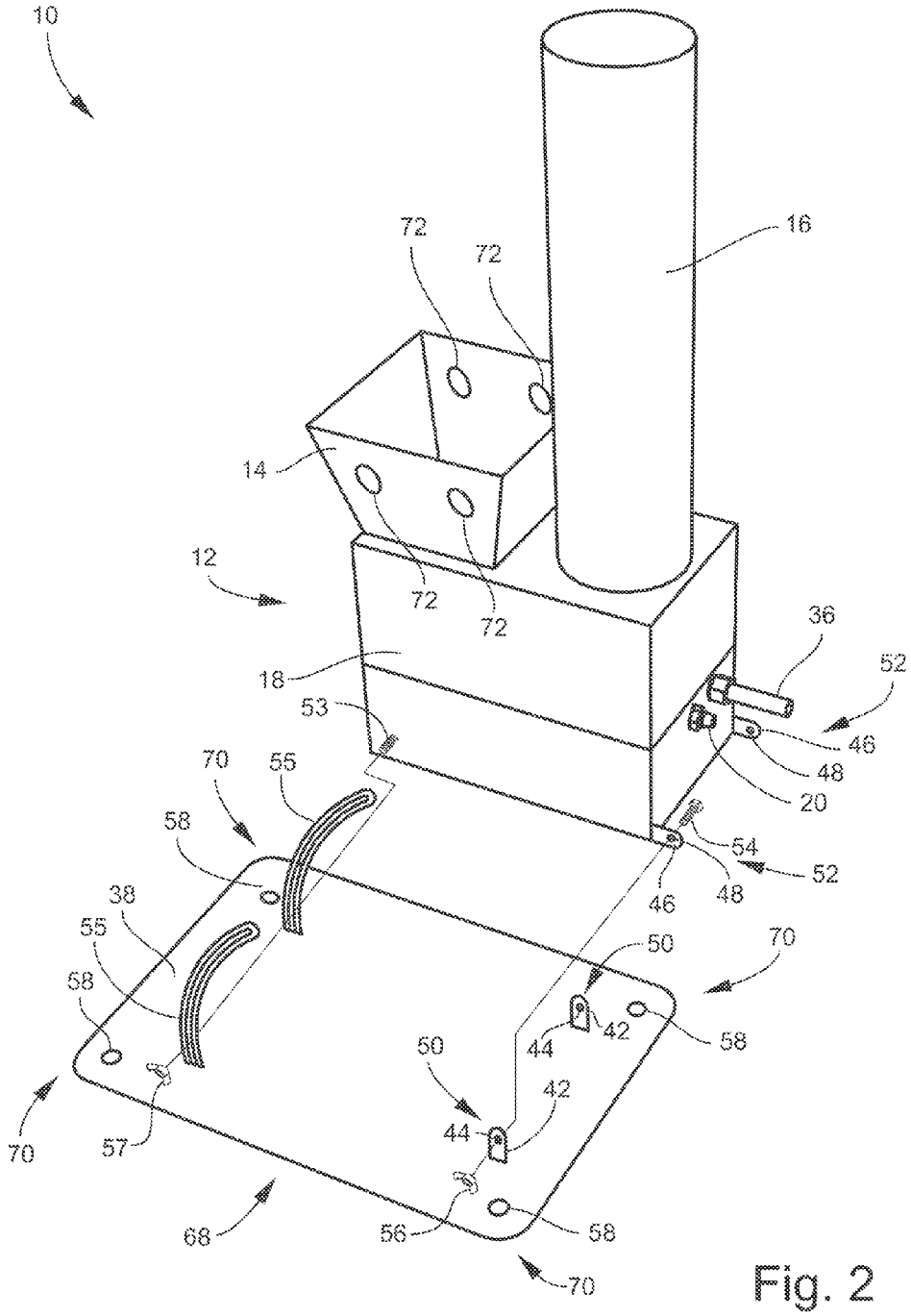

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Fig. 2

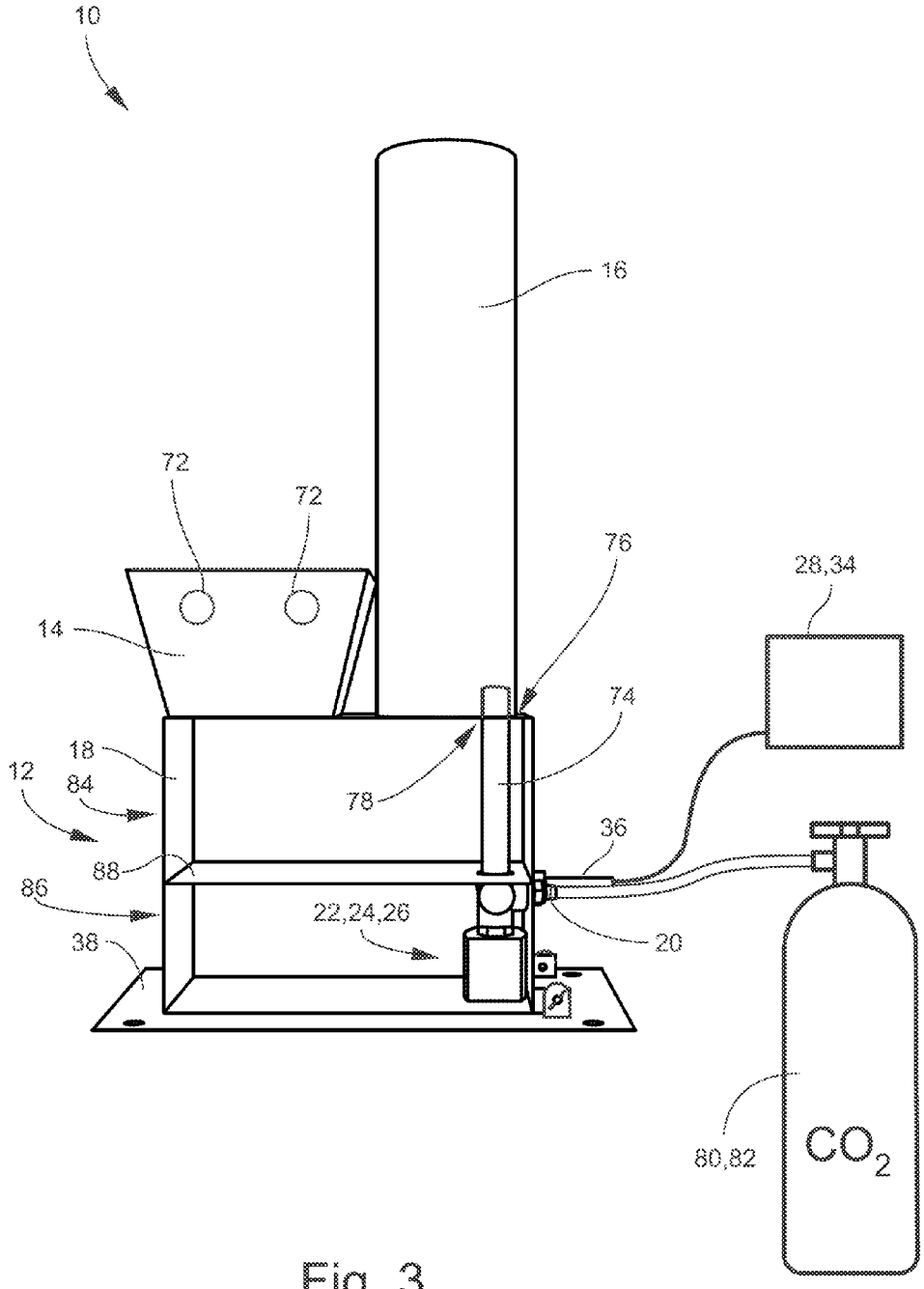

Fig. 3

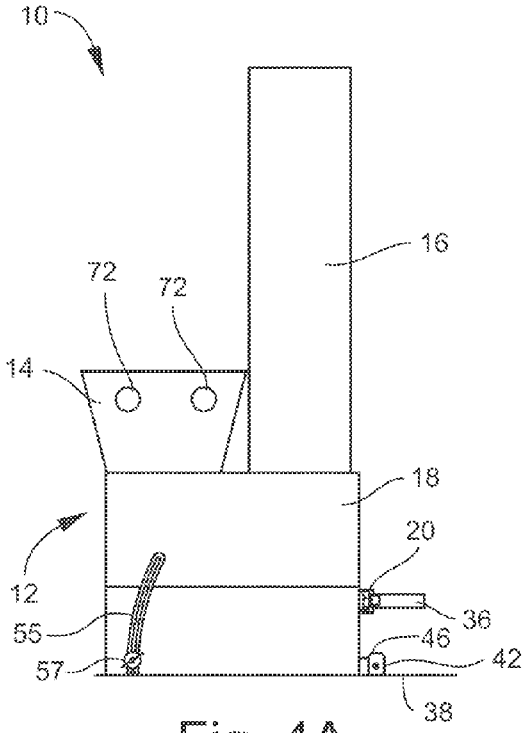

Fig. 4A

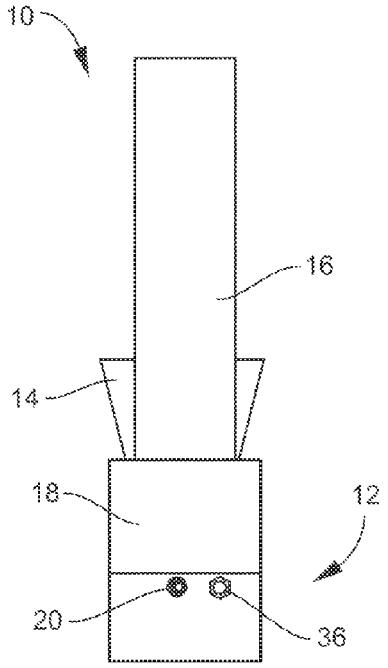

Fig. 5

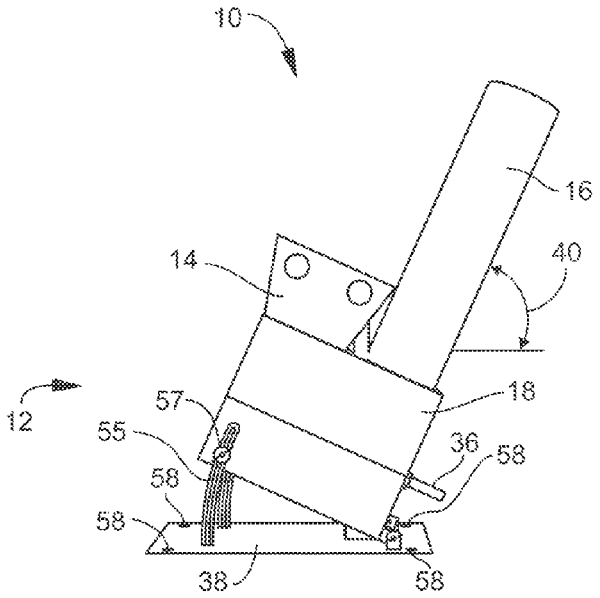

Fig. 4B

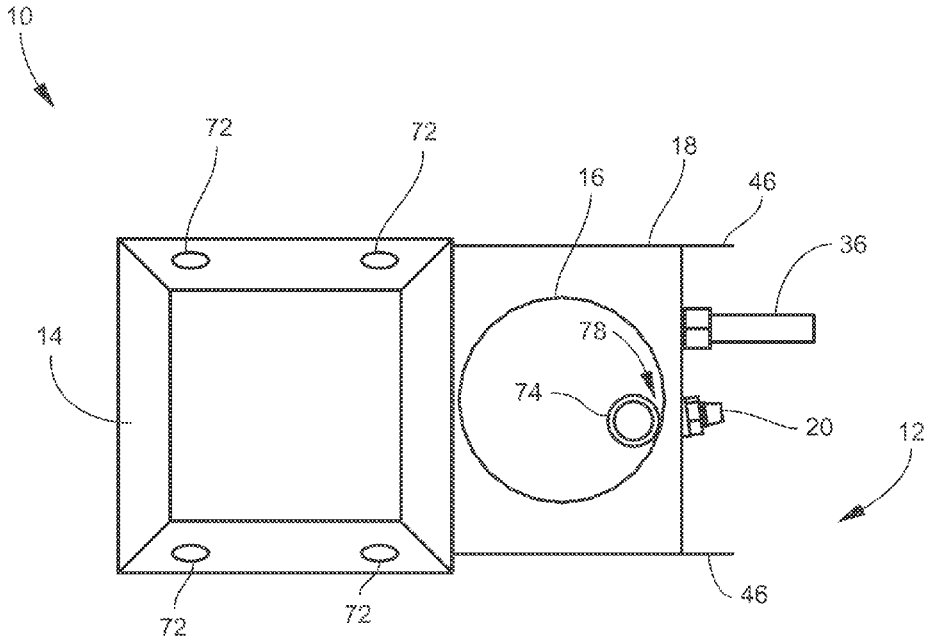
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Fig. 6

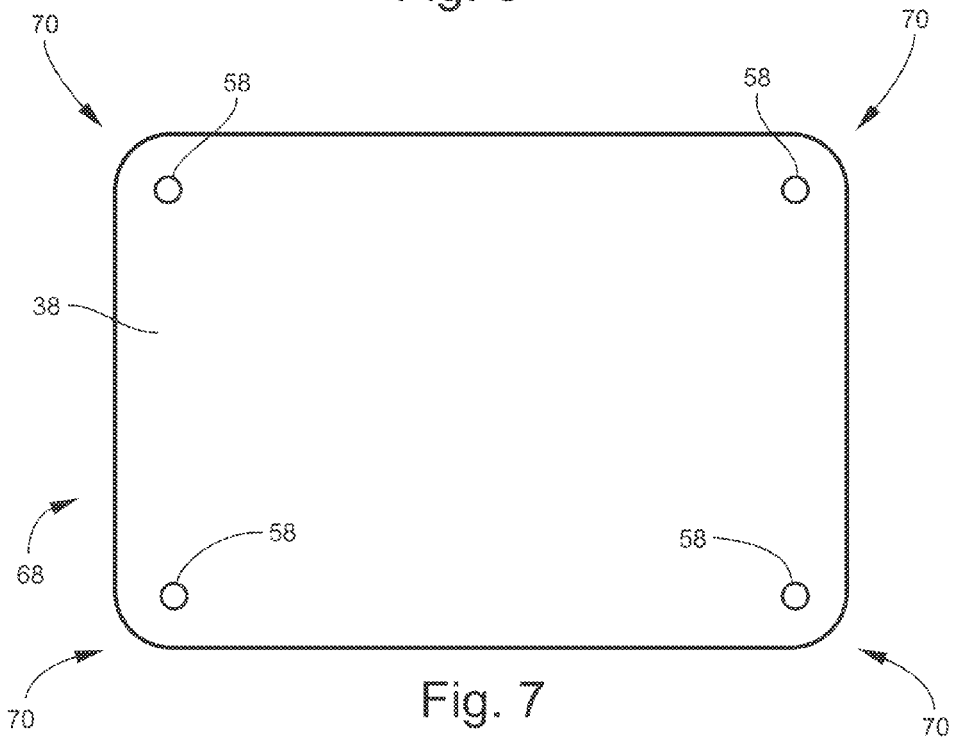
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Fig. 7

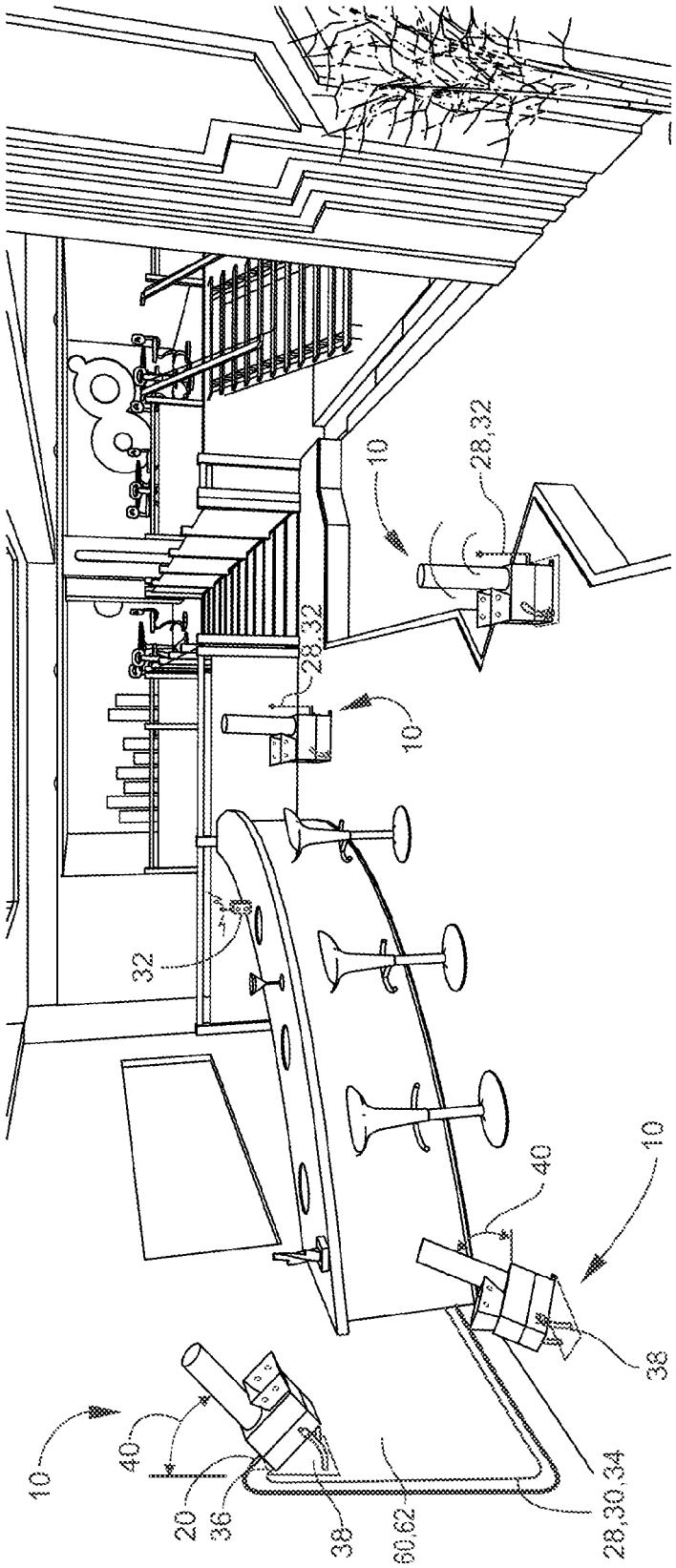

Fig. 8

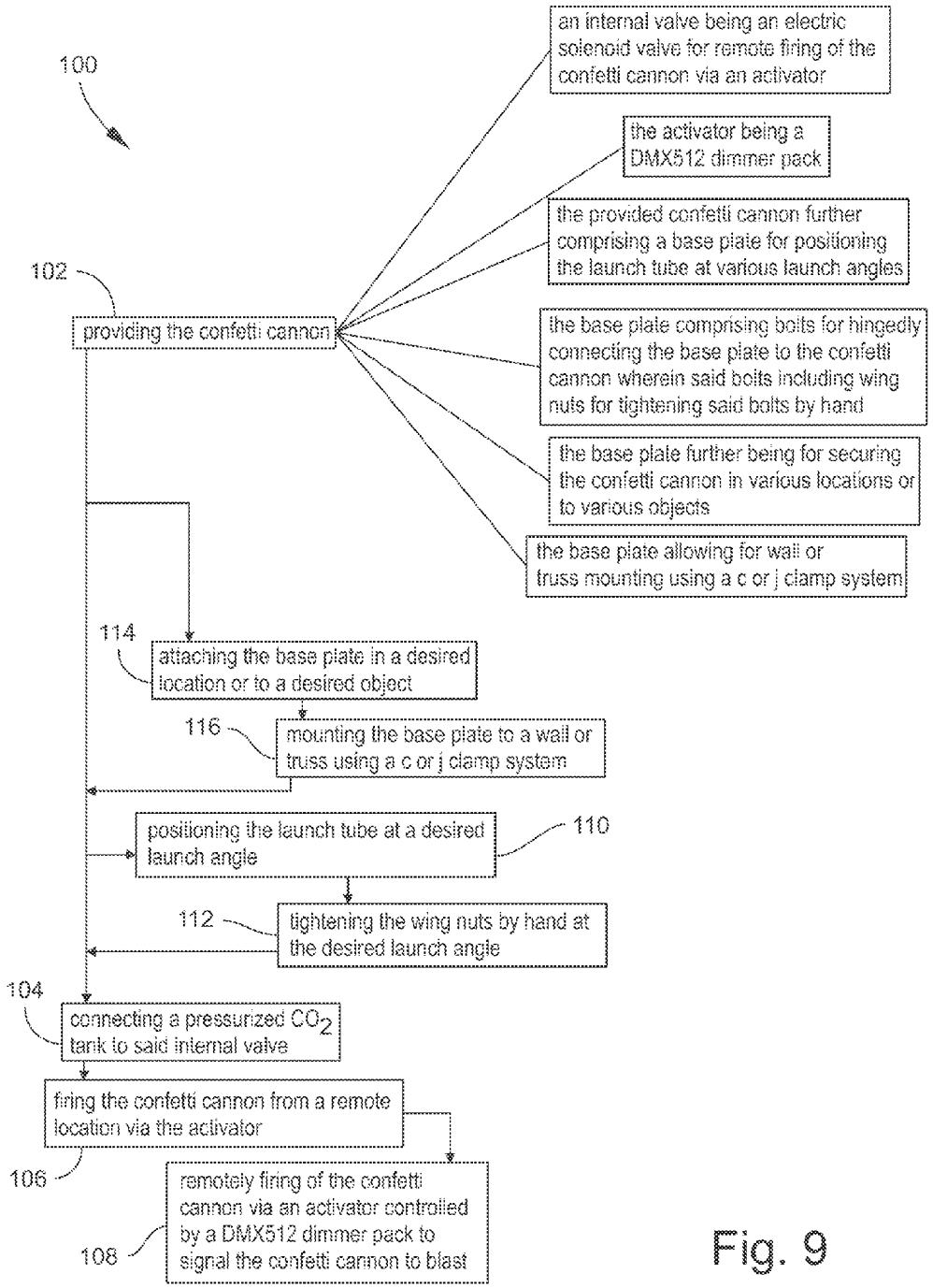
100
102
providing the confetti cannon
an internal valve being an electric solenoid valve for remote firing of the confetti cannon via an activator
the activator being a DMX512 dimmer pack
the provided confetti cannon further comprising a base plate for positioning the launch tube at various launch angles
the base plate comprising bolts for hingedly connecting the base plate to the confetti cannon wherein said bolts including wing nuts for tightening said bolts by hand
the base plate further being for securing the confetti cannon in various locations or to various objects
the base plate allowing for wall or truss mounting using a c or j clamp system
114
attaching the base plate in a desired location or to a desired object
116
mounting the base plate to a wall or truss using a c or j clamp system
positioning the launch tube at a desired launch angle
110
112
tightening the wing nuts by hand at the desired launch angle
104
connecting a pressurized CO_2 tank to said internal valve
firing the confetti cannon from a remote location via the activator
106
remotely firing of the confetti cannon via an activator controlled by a DMX512 dimmer pack to signal the confetti cannon to blast
108

Fig. 9

CONFETTI CANNON AND METHOD OF MANUFACTURING AND USE THEREOF

TECHNICAL FIELD

The present disclosure is generally related to special effects systems and, more particularly, is related to devices for launching confetti, streamers, rose pedals, tickets, money, and the like into the air, also known as confetti cannons.

BACKGROUND

Confetti, also known as confetti streamers, is often used at the beginning or during spectator events and/or celebrations, or other desired locations, events, the like, etc. The confetti may be dropped from an elevated position or shot, blasted or burst out of a confetti cannon.

Bursts of confetti, streamers, or other similar materials like rose pedals, tickets, money, and the like, shot out of confetti cannons connected to compressed gas sources have long been used at shows, parties, circus acts and other events so as to produce displays of sound, color and motion. However, such cannons have been large or bulky and made of two or more parts or pieces that need to be attached or assembled together. For example, current confetti cannons have a hopper that needs to be mounted to the cannon or launch tube, which may also has to have a valve hooked up to it for regulating the compressed gas. As such, these cannons are difficult to transport, time consuming to setup and/or tear down, and limited to wear they can be placed, positioned and/or mounted. In addition, the current confetti cannons are often times rather large or bulky.

Current confetti cannons typically have a manual valve, like a ball valve, that is connected to a pressurized CO_2 tank for controlling the flow of gas into the cannon, i.e. the firing of the confetti. These manual valves require an operator to fire the confetti cannon by manually opening the valve in proximity to the device. This further limits the locations the confetti cannon can be placed or positioned and requires an operator to be present at the confetti cannon for firing. As such, it should be readily appreciated by those skilled in the special effects art that a confetti cannon that could be remotely fired would allow for easier operation and allow the confetti cannon device to be positioned in more optimal locations.

Therefore, it is readily apparent that there is a recognizable unmet need for a confetti cannon device that is compact, easy to transport, easy to setup and/or tear down, capable of being placed, positioned, and or mounted in more desired locations, and capable of being remotely fired.

The instant disclosure of confetti cannon and method of manufacture and use thereof may be provided to address at least some of the above mentioned problems.

SUMMARY

Briefly described, in a preferred embodiment, the present apparatus and method overcomes the above-mentioned disadvantages and meets the recognized need for such a device by providing a confetti cannon device for shooting, bursting or blasting confetti or confetti streamers that may be compact, may be easy to transport, may be easy to setup and/or tear down, and may be capable of being placed, positioned, and or mounted in numerous desired locations.

In select embodiments, the confetti cannon device includes a one-piece housing. The one-piece housing includes a confetti hopper, a launch tube, and a valve housing. The valve housing has an inlet connected to an internal valve. Whereby, the hopper, the launch tube, and the valve housing may be integrally formed to create the one-piece housing.

One feature may be that the internal valve can be an electric solenoid valve for controlling the confetti cannon remotely. The electric solenoid valve may be a normally closed valve that opens when powered and allows for remote firing of the confetti cannon via an activator, which can be a wired activator or a wireless activator.

Another feature may be that the wired activator may be a standard DMX controller, like a DMX512 dimmer pack, to signal the confetti cannon to blast.

Another feature may be a base plate for positioning the launch tube at various launch angles to the base plate, and/or for securing the confetti cannon in various locations or to various objects.

Another feature may be the inclusion of half moon slots for securing the confetti cannon and launch tube at the desire launch angle.

Another feature may be the inclusion of at least one hopper hole through the confetti hopper for safely preventing objects from being suctioned to the top of the confetti hopper.

Another feature may be the inclusion of a pipe nipple connected to and extending from the internal valve into the bottom of the launch tube for firing confetti inside the launch tube and creating a continuous vacuum from the confetti hopper to the launch tube.

Another feature may be that the confetti cannon may be operable as a confetti cannon by filling with confetti and connecting a pressurized CO2 tank to the internal valve, or it may be transformable into a CO2 cryogenic jet or fog machine by connecting a pressurized CO2 cryo tank to said inlet, or it may be transformable into a combined confetti cannon and CO2 cryogenic jet or fog machine by filling with confetti and connecting a pressurized CO2 cryo tank to the inlet.

In use, a method of remotely launching confetti into the air may be conducted utilizing the various embodiments of the confetti cannon as shown and described herein. The method may include the general steps of: providing the confetti cannon in any of the various embodiments shown and described herein including the internal valve being an electric solenoid valve for remote firing of the confetti cannon via an activator, connecting a pressurized CO2 tank to the internal valve, and firing the confetti cannon from a remote location via the activator.

One feature of the method of remotely launching confetti into the air may be when the activator is a standard DMX controller, like a DMX512 dimmer pack, the step of firing the confetti cannon from a remote location may include a step of remotely firing of the confetti cannon via the activator controlled by the DMX controller to signal the confetti cannon to blast.

Another feature of the method of remotely launching confetti into the air may be, when the provided confetti cannon may further comprise the base plate for positioning the launch tube at various launch angles, the method may further comprise the step of positioning the launch tube at a desired launch angle via the base plate.

Another feature of the method of remotely launching confetti into the air may be, when the base plate includes bolts for hingedly connecting the base plate to the confetti cannon wherein the bolts include wing nuts for tightening the bolts by hand, the step of positioning the launch tube at a desired launch angle via the base plate may include the step of tightening the wing nuts by hand at the desired launch angle.

Another feature of the method of remotely launching confetti into the air may be, when the base plate may be for securing the confetti cannon in various locations or to various objects, the method may further comprise the step of attaching the base plate in a desire location or to a desired object.

Another feature of the method of remotely launching confetti into the air may be, when the base plate may allow for wall or truss mounting using a standard clamp system, like a C or J type clamp system, the step of attaching the base plate in a desire location or to a desired object may include the step of mounting the base plate to a wall or truss using the clamp system.

BRIEF DESCRIPTION OF THE DRAWINGS

The present confetti cannon will be better understood by reading the Detailed Description with reference to the accompanying drawings, which are not necessarily drawn to scale, and in which like reference numerals denote similar structure and refer to like elements throughout, and in which:

FIG. **1** is a perspective view of an example embodiment of a confetti cannon;

FIG. **2** is a partially disassembled perspective view of the confetti cannon device of FIG. **1**;

FIG. **3** is a cross-sectional system diagram of the confetti cannon device of FIG. **1**;

FIG. **4**A is a front view of the confetti cannon device of FIG. **1** in a vertical firing position;

FIG. **4**B is a front view of the confetti cannon device of FIG. **1** in an angled firing position;

FIG. **5** is a side view of the confetti cannon device of FIG. **1**;

FIG. **6** is a top view of the confetti cannon device of FIG. **1**;

FIG. **7** is a bottom view of the confetti cannon device of FIG. **1**;

FIG. **8** is an environmental perspective view of multiple embodiments of the confetti cannon devices mounted in various locations and orientations; and

FIG. **9** is a flow chart depicting an exemplary embodiment of the method of remotely launching confetti into the air.

DETAILED DESCRIPTION

In describing the exemplary embodiments of the present disclosure, as illustrated in FIGS. **1-9**, specific terminology is employed for the sake of clarity. The present disclosure, however, is not intended to be limited to the specific terminology so selected, and it is to be understood that each specific element includes all technical equivalents that operate in a similar manner to accomplish similar functions. Embodiments of the claims may, however, be embodied in many different forms and should not be construed to be limited to the embodiments set forth herein. The examples set forth herein are non-limiting examples, and are merely examples among other possible examples.

Referring now to FIGS. **1-8** by way of example, and not limitation, therein is illustrated example embodiments of confetti cannon **10** for firing, shooting, bursting, or blasting confetti. Confetti, as used herein, may refer to confetti, streamers, rose pedals, tickets, money, and/or or the like. As shown therein, confetti cannon **10** generally includes one-piece housing **12**. One-piece housing **12** may include confetti hopper **14**, launch tube **16** and valve housing **18**. Valve housing **18** may include inlet **20** which may be connected to internal valve **22**. Whereby, confetti hopper **14**, launch tube **16**, and valve housing **18** may be integrally formed to create one-piece housing **12**.

Integrally formed one-piece housing **12**, as used herein, refers to the one-piece housing **12** being manufactured or created as a single unit, requiring no assembly by the user. For example, one-piece housing **12** may not requires any assembly of confetti hopper **14** to launch tube **16**, no assembly of launch tube **16** to valve housing **18**, no assembly of confetti hopper **14** to valve housing **18**, or combinations thereof. As such, integrally formed one-piece housing **12** may be created by any various integrally forming processes, including, but not limited to, any stamping processes, molding processes, welding processes, the like processes, or any combinations thereof for creating one-piece housing **12**. One-piece housing **12** being integrally formed may allow for confetti cannon **10** to be compact, easy to transport, easy to setup and/or tear down, capable of being placed, positioned, and or mounted in more desired locations, the like, or any combinations thereof.

Referring to FIG. **3**, internal valve **22** may be included in valve housing **18**. Internal valve **22** may be for controlling the firing of confetti cannon **10** via pressurized CO_2 tank **80** (or CO_2 cryo tank **82** for creating fog or smoke). Internal valve **22** may be positioned anywhere inside valve housing **18**, including under launch tube **16** in lower portion **84** of valve housing **18**.

Internal valve **22** may be electric solenoid valve **24** for controlling the confetti cannon remotely. Electric solenoid valve **24** may be any electrically controlled valve capable of controlling the firing of confetti cannon **10** via pressurized CO_2 tank **80** (or CO_2 cryo tank **82** for creating fog or smoke). In one embodiment, electric solenoid valve **24** may be normally closed valve **26** that opens when powered. This may allow for remote activation of confetti cannon **10** by sending power to electric solenoid valve **24**. Electric solenoid valve **24** may allow for remote firing of the confetti cannon via an activator **28**. Activator **28** may be any desired device or activator for signaling to electric solenoid valve **24** to fire confetti cannon **10**, including any wired activators **30** and/or wireless activators **32**. The wired activators **30** may be any devices for activating internal valve **22** via a wired signal, including, but not limited to, standard DMX controller **34** (like a DMX512 dimmer pack); a power strip; cryo blaster push button systems; a foot switch, the like, or any combinations thereof. Electric solenoid valve **24** may be powered by any desired voltage, including, but not limited to 120 volts or by 240 volts. For powering electric solenoid valve **24**, power cord **36** may be provided. Power cord **36** may be connectable to internal valve **22** through one piece housing **12**. Power cord **36** may be any power cord, including, but not limited to, an 8 feet long power cord for powering electric solenoid valve **24**.

In one embodiment of confetti cannon **10**, the firing of the cannon via electric solenoid valve **24** may be controlled by standard DMX controller **34**. Standard DMX controller **34** may be any DMX controller, like a DMX512 dimmer pack. DMX controllers may be readily used in the special effects industry, which should allow for easy integration of the remote firing of confetti cannon **10** into standard special effects controls or modules. For example, in this embodiment, electric solenoid valve **24** may allow for remote firing of confetti cannon **10** via activator **28** controlled by a DMX512 dimmer pack to signal the confetti cannon to blast.

Base plate **38** may be included with confetti cannon **10**. See FIGS. **1-4**, **7**, and **8**. Base plate **38** may be for positioning launch tube **16** at various launch angles **40** to base plate **38**. In addition, base plate **38** may be for securing confetti cannon **10** in various locations or to various objects. See FIG. **8**. Base plate **38** may be any size, shape or material base plate for positioning launch tube **16** at various launch angles **40** to base plate **38**, and/or for securing confetti cannon **10** in various

locations or to various objects. In select embodiments, as shown in FIGS. **1-4**, **7**, and **8**, base plate **38** may have substantially rectangular shape **68** with corners **70**, which may be rounded for safety and/or appearance. For stability, base plate **38** may be sized larger than one-piece housing **12**. For example, and clearly not limited thereto, in one embodiment base plate **38** may be sized with a width of 10 inches and a length of almost 16 inches, and one-piece housing **12** may have a width of 6 inches and a length of 10 inches.

Base plate **38** may be hingedly connected to one-piece housing **12** for providing various launch angles **40**. Base plate **38** may be hingedly connected to one-piece housing **12** by any means. In one embodiment, base plate **38** may include a pair of base tabs **42** and one-piece housing **12** may include corresponding housing tabs **46** for creating the hinged connection between base plate **38** and one-piece housing **12**. See FIGS. **1** and **2**. Base tabs **42** and the corresponding housing tabs **46** may be any size or shape for creating the hinged connection between base plate **38** and one-piece housing **12**. In one embodiment, base tabs **42** may extend vertically from base plate **38** and may each have base tab holes **44** therethrough. In this embodiment, housing tabs **46** may extend horizontally from one-piece housing **12** and may each have housing tab holes **48** therethrough. Each base tab **42** may be hingedly connected to the corresponding housing tab **46**. Base tabs **42** and housing tabs **46** may have any desired shape or size for creating the desired launch angles **40** of confetti cannon **10**. Base tabs **42** may have semi circle shape **50** and housing tabs **46** may have an extended semi circle shape **52**, for creating a plurality of desired launch angles **40** of launch tube **16** relative to base plate **38**. The base tabs **42** may be hingedly connected to housing tabs **46** by any means. In one embodiment, bolts **54** may be included for hingedly connecting each of the base tabs **42** to each of the corresponding housing tabs **46**. Each bolt **54** may be inserted through the corresponding base tab hole **44** and housing tab hole **48**, thereby being operable to secure one-piece housing **12** at various launch angles **40** to base plate **38**. For convenience, bolts **54** may include wing nuts **56** for tightening bolts **54** by hand.

Half moon slots **55** may be included on base plate **38**. See FIGS. **1**, **2**, **4**A, and **4**B. Half moon slots **55** may be for securing confetti cannon **10** and launch tube **16** at the desired launch angle **40**. Valve housing **18** may have side bolts **53** for engagement in half moon slots **55**. For manual tightening, wing nuts **57** may be includes for securing confetti cannon **10** and launch tube **16** at the desired launch angle **40** by hand. Half moon slots **55** may be provided in any desired length for allowing any desired launch angles **40**. In addition, half moon slots **55** may be included on one side of confetti cannon **10**, or may be provided on both sides of confetti cannon **10** for added stability.

In one embodiment, base plate **38** may include a plurality of securing base holes **58**. Securing base holes **58** may be for securing confetti cannon **10** in any desired location and/or to any desired objects. Securing base holes **58** may be positioned at any desired location or locations on base plate **38** for securing confetti cannon **10**. In one embodiment, securing base holes **58** may be positioned approximate to each corner **70** of base plate **38** for securing confetti cannon **10** in the various desired locations or to various desired objects. For example, the securing base holes **58** may allow base plate **38** to be mounted to wall **60** or truss **62**. To aid in securing base plate **38** to wall **60** or truss **62**, a clamp system may be incorporated, like a standard C or J clamp system.

Valve housing **18** may be included for housing internal valve **22**. See FIG. **3**. Valve housing **18** may also provide a flow path or communication path from the bottom of confetti hopper **14** to the bottom of launch tube **16**. As such, valve housing **18** may be divided into lower portion **84** and upper portion **86** via divider **88**. In this embodiment, upper portion **86** may provide the flow path from the bottom of confetti hopper **14** to the bottom of launch tube **16** and lower portion **84** may house internal valve **22**. Divider **88** may separate upper portion **86** from lower portion **84**, thereby keeping internal valve **22** safely out of the flow path from the bottom of confetti hopper **14** to the bottom of launch tube **16**.

Confetti hopper **14** may be included for loading confetti, streamers or the like into confetti cannon **10**. Confetti hopper **14** may be any desired shape or size. As an added safety feature, confetti hopper **14** may include at least one hopper hole **72** therethrough. Hopper hole **72** may be for preventing objects from being suctioned to the top of confetti hopper **14**. Hopper hole **72** or a plurality of hopper holes **72** may be included anywhere on confetti hopper **14**. In one embodiment, as shown in the FIGS. **1**, **2** and **6**, confetti hopper **14** may include two hopper holes **72** on two opposite sides of confetti hopper **14** for preventing objects from being suctioned to the top of confetti hopper **14**.

Launch tube **16** may be included for shooting the confetti, streamers or the like out of confetti cannon **10**. Launch tube **16** may be any desired shape or size. For example, and clearly not limited thereto, in one embodiment launch tube **16** may have a 4 inch diameter and be 16 inches tall.

Pipe nipple **74** may be included with confetti cannon **10**. See FIGS. **3** and **6**. Pipe nipple **74** may be connected to and extend from internal valve **22** into the bottom **76** of launch tube **16** for firing confetti inside launch tube **16** and creating a continuous vacuum or venturi effect from confetti hopper **14** to launch tube **16**. Pipe nipple **74** may run from lower portion **84** of valve housing **18** through divider **88**, into upper portion **86**, and into bottom **76** of launch tube **16**. Pipe nipple **74** may be positioned anywhere into bottom **76** of launch tube **16**, including, but not limited to, being positioned approximate the perimeter **78** of launch tube **16** farthest from confetti hopper **14**. Pipe nipple **74** may be provided in any desire size or shape for creating any desired amount of continuous vacuum or venturi effect from confetti hopper **14** to launch tube **16**. In one embodiment, pipe nipple **74** may have a diameter size of approximately ⅜ of an inch. In addition, pipe nipple **74** may extend any desired distance into launch tube **16** for creating the desired amount of continuous vacuum or venturi effect. In one embodiment, pipe nipple **74** may extend approximately 2 inches into bottom **76** of launch tube **16**.

Inlet **20** may be operable to connect pressurized CO_2 tank **80** to internal valve **22** for firing confetti out of launch tube **16**. In addition, inlet **20** may be operable to connect pressurized CO_2 cryo tank **82** for creating a fog or smoke out of launch tube **16**. As such, confetti cannon **10** may be operable by filling confetti hopper **14** and/or launch tube **16** with confetti, streamers or the like and connecting a pressurized CO_2 tank to inlet **20**. In addition, in one embodiment confetti cannon **10** may be transformable into a CO_2 cryogenic jet or fog machine by connecting a pressurized CO_2 cryo tank to inlet **20**. Furthermore, in another embodiment confetti cannon **10** may be transformable into a combined confetti cannon and CO_2 cryogenic jet or fog machine by filling with confetti and connecting a pressurized CO_2 cryo tank to inlet **20**.

Referring to FIG. **9**, in use, method **100** of remotely launching confetti into the air may be accomplished with various embodiments of confetti cannon **10**, as shown and described herein. Method **100** of remotely launching confetti into the air may generally include the steps of: a step **102** of providing confetti cannon **10** as shown and described herein with internal valve **22** being electric solenoid valve **24** for remote firing

of confetti cannon **10** via activator **28**; a step **104** of connecting pressurized CO_2 tank **80** (or pressurized CO_2 cryo tank **82** for fog machine operation) to internal valve **22**; and a step **104** of firing confetti cannon **10** from a remote location via activator **28**.

In one embodiment of method **100**, when the activator **28** may be standard DMX controller **34**, like a DMX512 dimmer pack, the step **106** of firing the confetti cannon **10** from a remote location may include step **108** of remotely firing of the confetti cannon **10** via activator **28** controlled by standard DMX controller **34** to signal confetti cannon **10** to blast.

In another embodiment of method **100**, when the provided confetti cannon **10** further includes base plate **38** for positioning launch tube **16** at various launch angles **40**, method **100** may further comprise step **110** of positioning launch tube **16** at a desired launch angle **40** via base plate **38**. When base plate **38** may include bolts **54** for hingedly connecting base plate **38** to the confetti cannon wherein bolts **54** include wing nuts **56** for tightening bolts **54** by hand, the step **110** of positioning launch tube **16** at a desired launch angle **40** via base plate **38** may include step **112** of tightening wing nuts **56** by hand at the desired launch angle **40**.

In another embodiment of method **100**, when base plate **38** further may be for securing confetti cannon **10** in various locations or to various objects, method **100** may further include step **114** of attaching base plate **38** in a desired location or to a desired object. In embodiments where base plate **38** may allow for wall **60** or truss **62** mounting like by using a clamp system (i.e. a C or J type clamp system), step **114** of attaching base plate **38** in a desire location or to a desired object may include step **116** of mounting base plate **38** to a wall **60** or truss **62**, like by using a clamp system (i.e. a C or J type clamp system).

The foregoing description and drawings comprise illustrative embodiments. Having thus described exemplary embodiments, it should be noted by those skilled in the art that the within disclosures are exemplary only, and that various other alternatives, adaptations, and modifications may be made within the scope of the present disclosure. Merely listing or numbering the steps of a method in a certain order does not constitute any limitation on the order of the steps of that method. Many modifications and other embodiments will come to mind to one skilled in the art to which this disclosure pertains having the benefit of the teachings presented in the foregoing descriptions and the associated drawings. Although specific terms may be employed herein, they are used in a generic and descriptive sense only and not for purposes of limitation. Accordingly, the present disclosure is not limited to the specific embodiments illustrated herein, but is limited only by the following claims.

What is claimed is:

1. A confetti cannon comprising:

a one piece housing comprising:

a confetti hopper;

a launch tube; and

a valve housing with an inlet connected to an internal valve, the valve housing divided into a lower portion and an upper portion via a divider, the upper portion providing a flow path from the bottom of the confetti hopper to the bottom of the launch tube and the lower portion housing the internal valve;

whereby, the hopper, the launch tube, and the valve housing being integrally formed to create said one piece housing.

2. The confetti cannon of claim **1** wherein the internal valve being an electric solenoid valve for controlling the confetti cannon remotely,

wherein the electric solenoid valve being a normally closed valve that opens when powered allowing for remote firing of the confetti cannon via an activator.

3. The confetti cannon of claim **2** wherein the activator being selected from the group consisting of: wired activators; and wireless activators.

4. The confetti cannon of claim **2** wherein the electric solenoid valve allowing for remote firing of the confetti cannon via an activator controlled by a standard DMX controller to signal the confetti cannon to blast.

5. The confetti cannon of claim **1** further comprising a base plate for positioning the launch tube at various launch angles to said base plate, for securing the confetti cannon in various locations or to various objects, or combinations thereof.

6. The confetti cannon of claim **5** wherein:

said base plate comprising a pair of base tabs vertically extending from said base plate having base tab holes therethrough, and

said one piece housing having corresponding housing tabs extending horizontally from the one piece housing having housing tab holes therethrough each being hingedly connected to said corresponding base tab.

7. The confetti cannon of claim **6** further comprising bolts for hingedly connecting each of said base tabs to each of said corresponding housing tabs,

whereby, each bolt inserted through said corresponding base tab hole and housing tab hole being operable to secure said one piece housing at said various launch angles to said base plate.

8. The confetti cannon of claim **5** wherein said base plate including at least one half moon slot for securing the confetti cannon and said launch tube at said launch angle,

wherein said valve housing having side bolts for engagement in said half moon slots;

and a wing nut being operable to secure the side bolt in the half moon slot at the desired launch angle.

9. The confetti cannon of claim **5** wherein said base plate including a plurality of securing base holes approximate to each corner of said base plate for securing the confetti cannon in the various locations or to various objects, wherein said base plate allowing for wall or truss mounting using a clamp system.

10. The confetti cannon of claim **1** wherein said confetti hopper including at least one hopper hole therethrough for preventing objects from being suctioned to the top of the confetti hopper.

11. The confetti cannon of claim **1** wherein said launch tube including a pipe nipple connected to and extending from said internal valve into the bottom of the launch tube for firing confetti inside said launch tube and creating a continuous vacuum from said confetti hopper to said launch tube.

12. The confetti cannon of claim **11** wherein said inlet being operable to connect a pressurized CO_2 tank or a pressurized CO_2 cryo tank to said internal valve and said pipe nipple, whereby:

the confetti cannon being operable by filling with confetti and connecting said pressurized CO_2 tank,

being transformable into a CO_2 cryogenic jet or fog machine by connecting said pressurized CO_2 cryo tank to said inlet, or

being transformable into a combined confetti cannon and CO_2 cryogenic jet or fog machine by filling with confetti and connecting said pressurized CO_2 cryo tank to said inlet.

13. A confetti cannon comprising:

an internal electric solenoid valve for controlling the confetti cannon remotely, the electric solenoid valve being a

normally closed valve that opens when powered allowing for remote firing of the confetti cannon via an activator: and

a valve housing divided into a lower portion and an upper portion via a divider, the upper portion providing a flow path from a bottom of a confetti hopper to a bottom of a launch tube and the lower portion housing the internal electric solenoid valve.

14. The confetti cannon of claim **13** wherein the activator being selected from the group consisting of: wired activators; and wireless activators.

15. The confetti cannon of claim **13** wherein the electric solenoid valve allowing for remote firing of the confetti cannon via an activator controlled by a standard DMX controller to signal the confetti cannon to blast.

16. The confetti cannon of claim **13** further comprising a valve housing with an inlet connected to said internal valve.

17. A method of remotely launching confetti into the air comprising the steps of:

providing a confetti cannon comprising:

an internal electric solenoid valve for remote firing of the confetti cannon via an activator; and

a valve housing divided into a lower portion and an upper portion via a divider, the upper portion providing a flow path from a bottom of a confetti hopper to a bottom of a launch tube and the lower portion housing the internal electric solenoid valve

connecting a pressurized CO_2 tank to said internal valve; and

firing the confetti cannon from a remote location via the activator.

18. The method of remotely launching confetti into the air of claim **17** wherein the activator being a standard DMX controller,

whereby, the step of firing the confetti cannon from a remote location including a step of remotely firing of the confetti cannon via an activator controlled by said standard DMX controller to signal the confetti cannon to blast.

19. The method of remotely launching confetti into the air of claim **17** wherein:

said provided confetti cannon further comprising a base plate for positioning a launch tube at various launch angles, whereby the method further comprising the step of positioning the launch tube at a desired launch angle via the base plate;

said base plate comprising bolts for hingedly connecting the base plate to the confetti cannon wherein said bolts including wing nuts for tightening said bolts by hand, whereby the step of positioning the launch tube at a desired launch angle via the base plate including the step of tightening the wing nuts by hand at the desired launch angle;

said base plate further being for securing the confetti cannon in various locations or to various objects, whereby the method further comprising the step of attaching the base plate in a desired location or to a desired object;

said base plate allowing for wall or truss mounting using a standard clamp system, the step of attaching the base plate in a desire location or to a desired object including the step of mounting the base plate to a wall or truss using said standard clamp system; or

combinations thereof.

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