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(54) **LIGHTED CUP HOLDER FOR SEATING ARRANGEMENTS**

(75) Inventors: **Kenneth G. Seidl**, Port Washington, WI (US); **John R. Howman**, Grafton, WI (US); **David J. Alpert**, Hartland, WI (US)

(73) Assignee: **Raffel Systems, LLC**, Cedarburg, WI (US)

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(58) **Field of Classification Search** ..... 248/311.2, 248/311.3, 346.11, 314; 362/154, 101  
See application file for complete search history.

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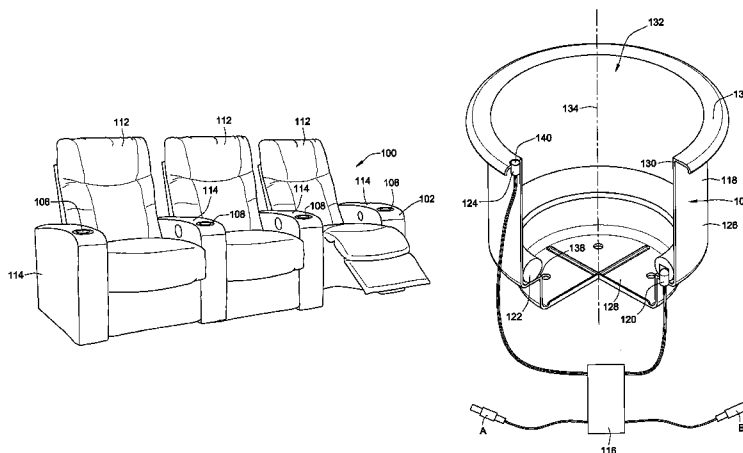
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*Primary Examiner*—J. Allen Shriver, II  
*Assistant Examiner*—Steven M Marsh  
(74) *Attorney, Agent, or Firm*—Casimir Jones S.C.

(57) **ABSTRACT**

A method and apparatus include attaching a lighted cup holder to a seating arrangement. The lighted cup holder includes a cup holder body and a light-producing light source, with the cup holder body being attached to the seating arrangement and having a cup receptacle therein, the light-producing source being disposed within the cup receptacle for illuminating the receptacle. A light-sensitive element operatively connected to the light source selectively controls production of light by the light source in such a manner that illumination of the cup holder is provided only under conditions where visibility is reduced to the point that it becomes difficult to locate the cup holder. The light-sensitive element is mounted on a master lighted cup holder and controls illumination of the master lighted cup holder and one or more slave lighted cup holders operatively connected to the master lighted cup holder.

**14 Claims, 7 Drawing Sheets**



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**FIG. 1**

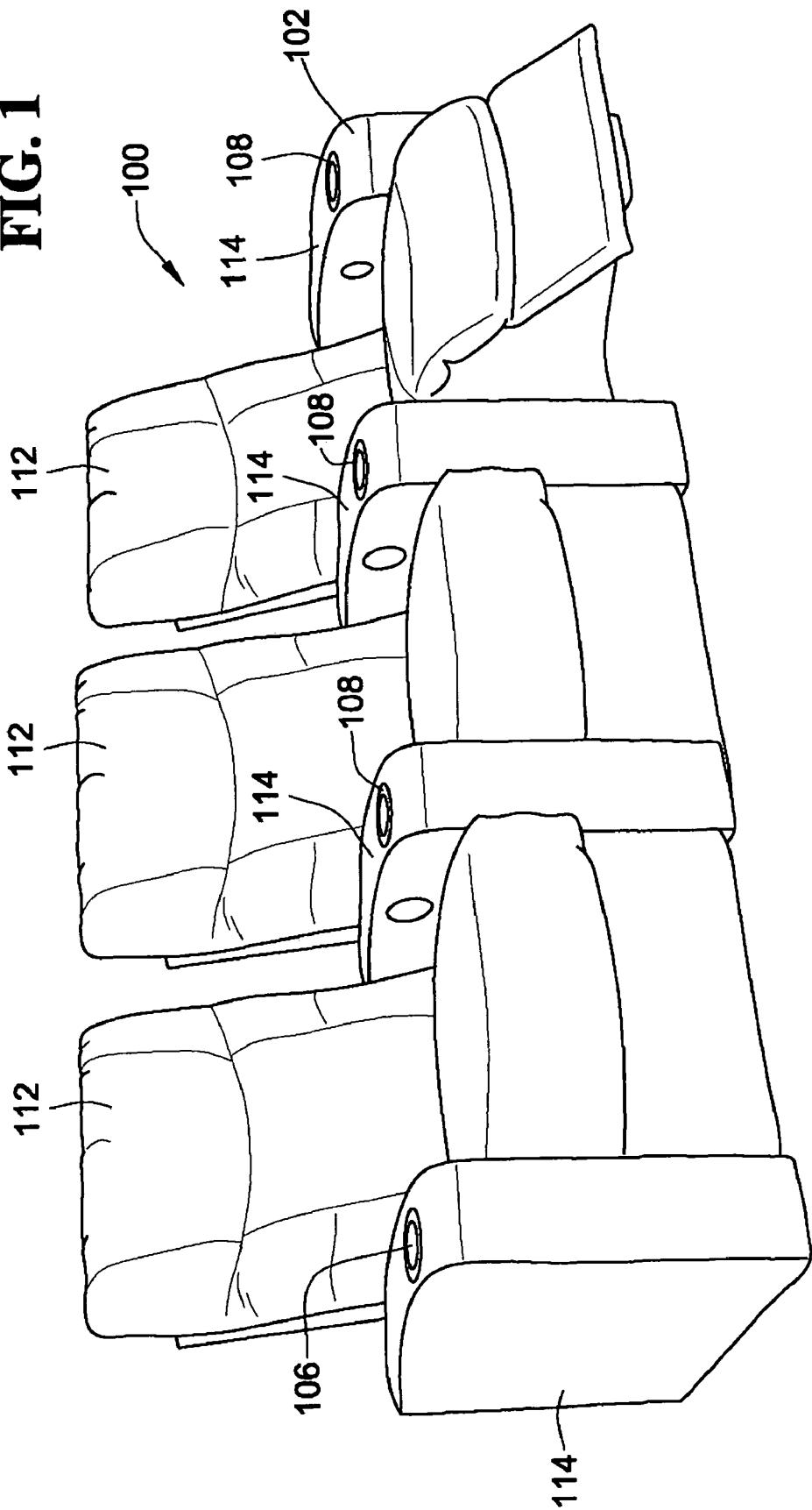
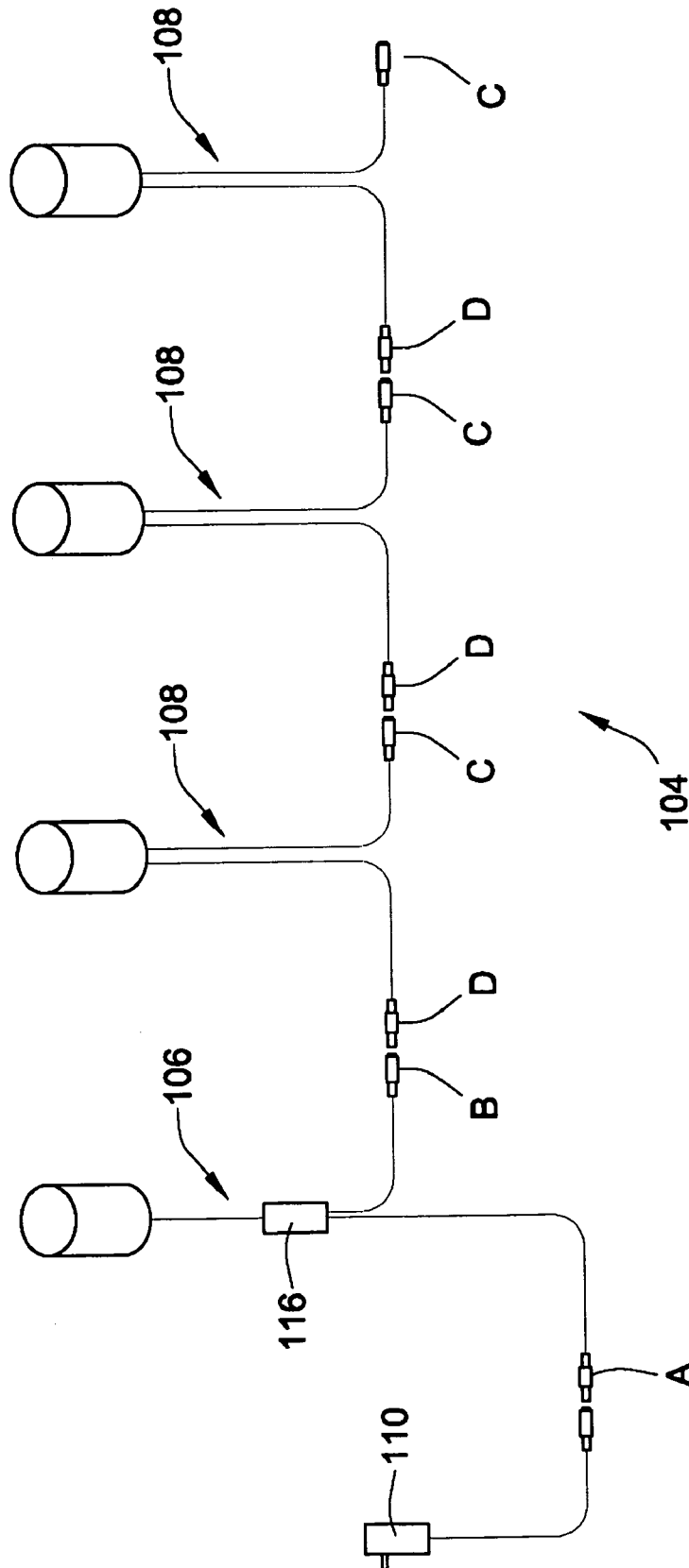
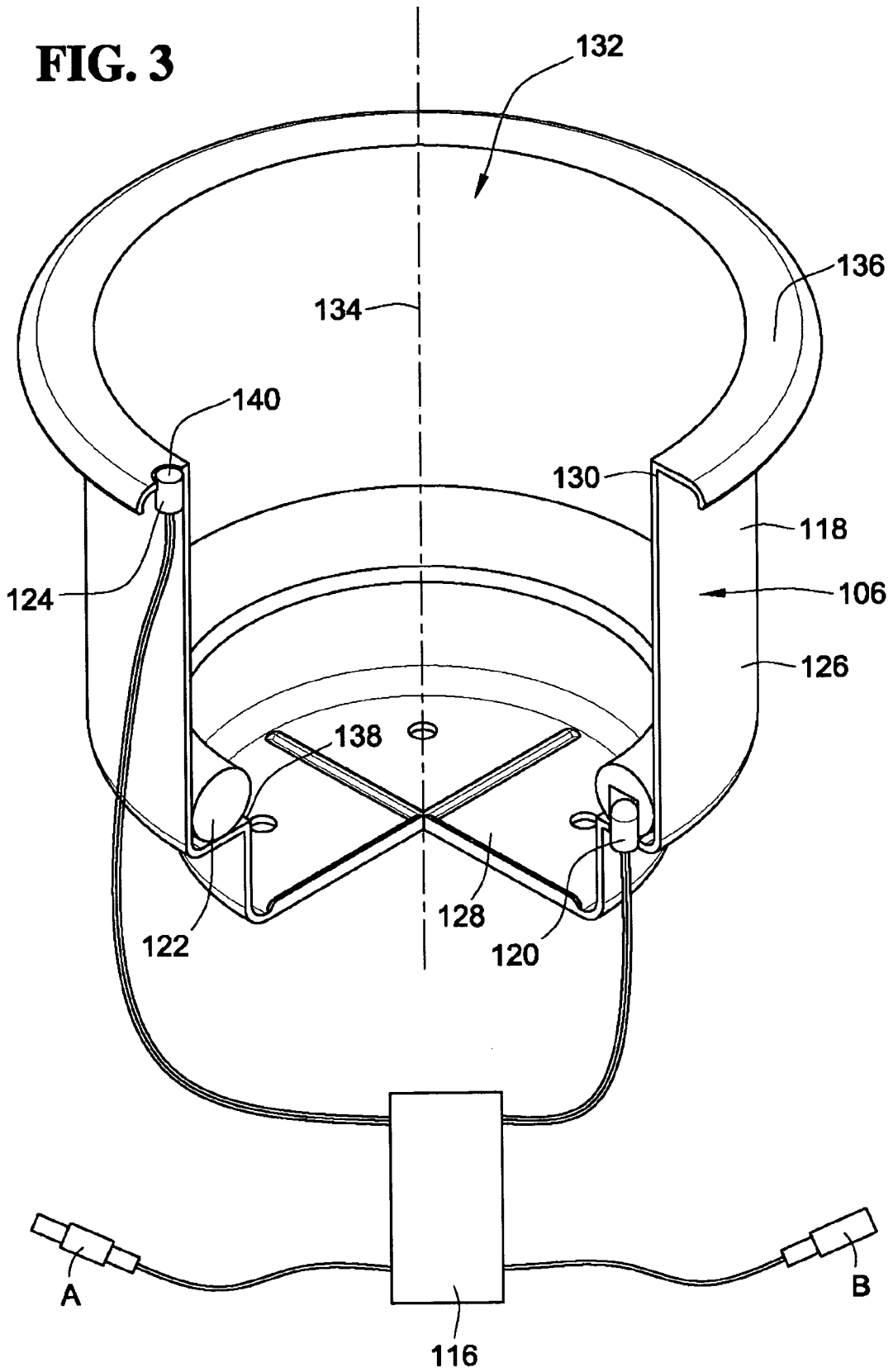


FIG. 2





**FIG. 4**

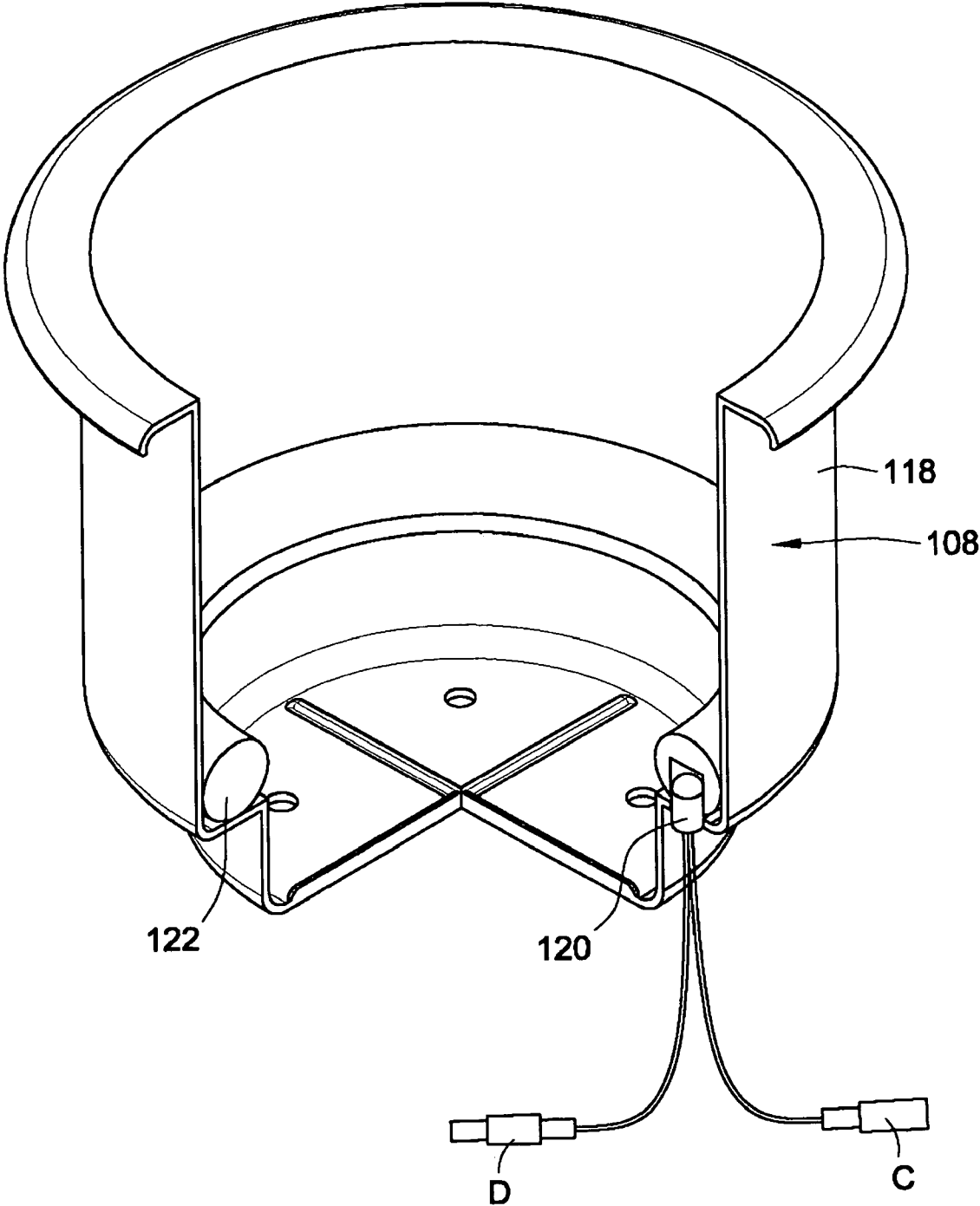
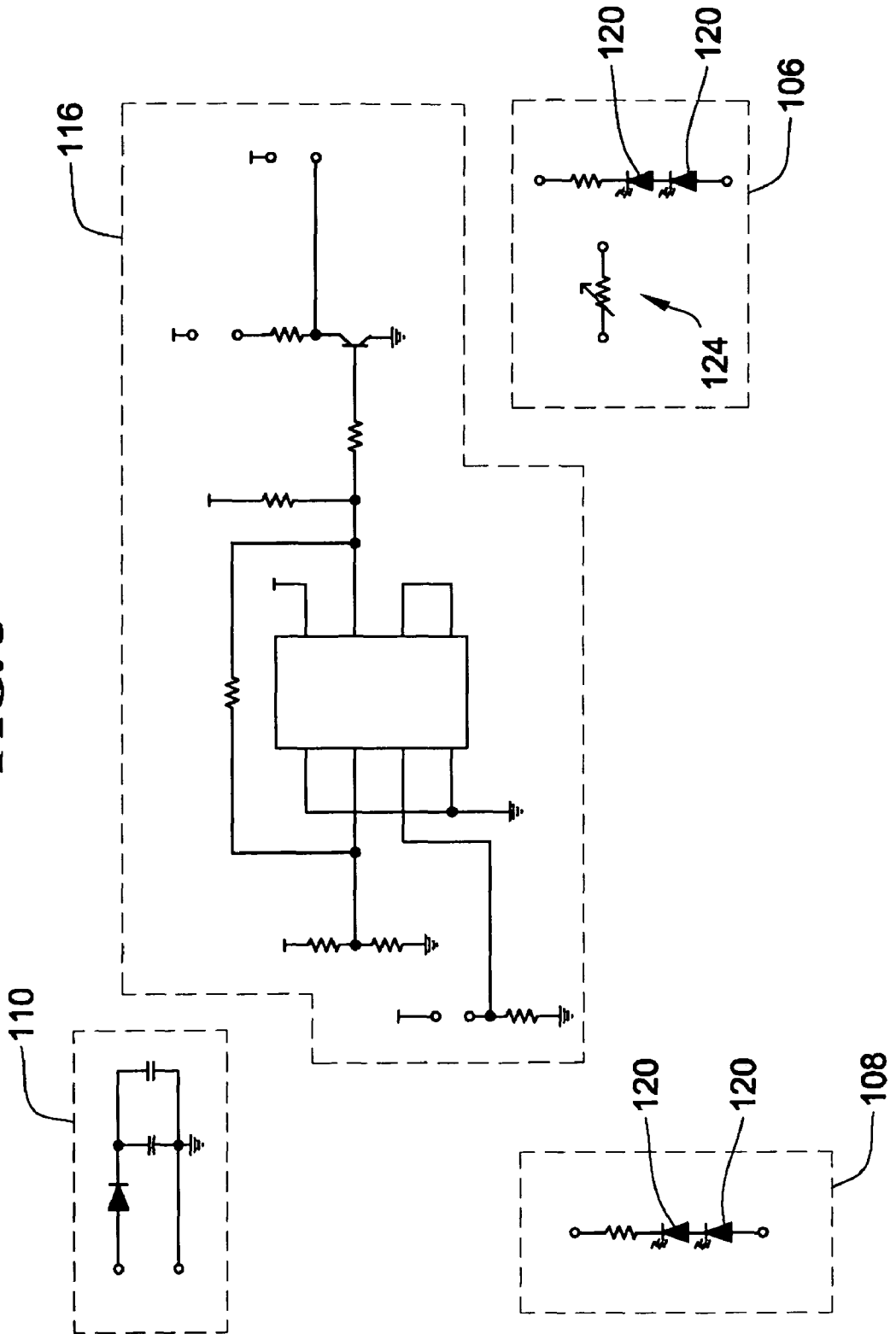


FIG. 5



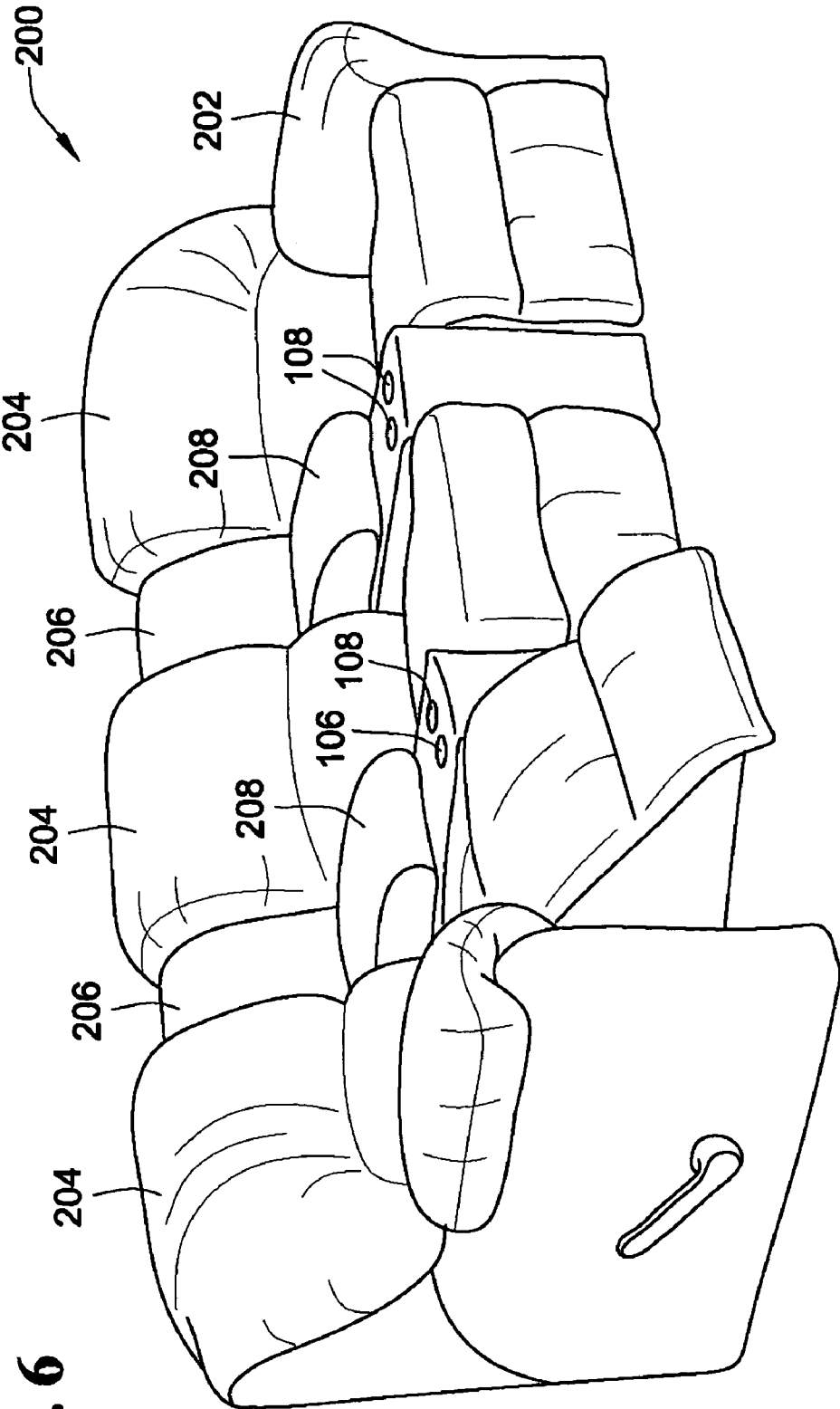
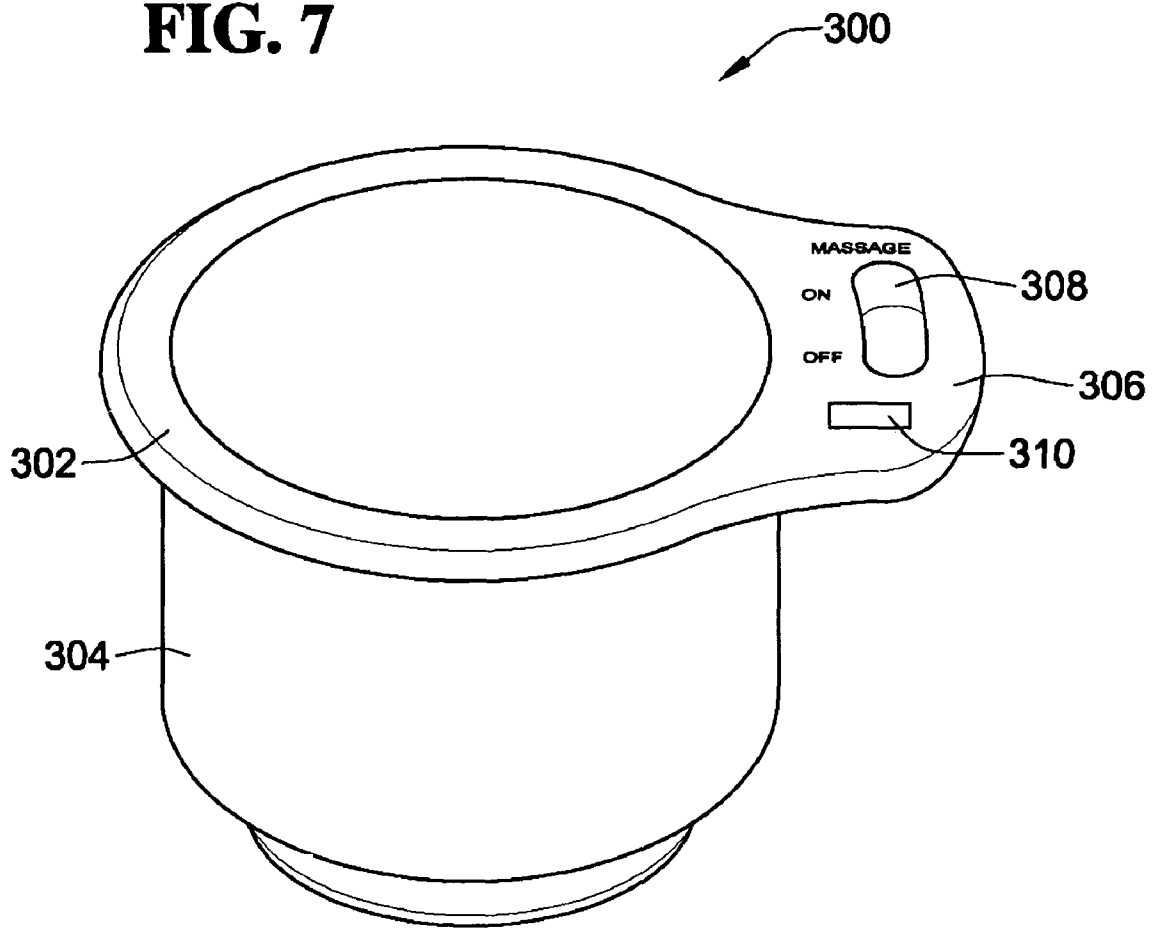


FIG. 6



**FIG. 7**



# LIGHTED CUP HOLDER FOR SEATING ARRANGEMENTS

## BACKGROUND OF THE INVENTION

### FIELD OF THE INVENTION

The present invention relates generally to providing cup holders, for beverages or food items such as popcorn or fast food, in seating arrangements, such as furniture, seating in passenger vehicles, aircraft or boats, and theatre seating, and more particularly to providing lighted cup holders for such seating arrangements.

In recent years, seating arrangements, such as upholstered chairs and sofas have sometimes included tables and cup holders for supporting food and snack items, or beverages within easy reach of occupants of the chair or sofa. This has particularly been the case for specialized upholstered seating arrangements specifically designed for use with home theater equipment. In some of these seating arrangements, the table surfaces and cup holders may be incorporated into an armrest, a spacer unit in a modular seating arrangement, or a fold-down backrest section of a sofa, as shown, for example, in U.S. Pat. No. 5,104,182, to Rasnick et al.

Seating arrangements of the type typically utilized in movie theaters also sometimes include cup holders, for beverages or food items such as popcorn. U.S. Pat. No. 4,863,134, to Young et al, for example, shows a combination cup holder and armrest of the type used in movie theater seating arrangements.

Seating arrangements in vehicles, aircraft and boats are also sometimes utilized in conjunction with cup holders mounted in center consoles, dashboards, or accessory tables mounted adjacent the seating arrangement. The following U.S. patents illustrate prior approaches to providing cup holders in vehicles, located in center consoles, etc., of a vehicle, located adjacent a seating apparatus of the vehicle: U.S. Pat. No. 6,896,387 B2, to Renfro; U.S. Pat. No. 6,234,439 B1, to Townsend et al; U.S. Pat. No. 6,193,399 B1 to Hulse; and U.S. Pat. No. 5,375,805 to Suckak et al. In some applications, it would be desirable to provide a cup holder as part of the seating arrangement, rather than having the cup holder located in an adjacent structure.

All of the above mentioned seating arrangements are often utilized under conditions of complete darkness, or limited visibility, in which it may be difficult to readily locate the cup holders. In a home theater seating arrangements, for example, this may lead to spillage of beverages or food items, resulting in staining or other damage being done to the seating arrangement or flooring materials adjacent to the seating arrangement. The inability to quickly locate a cup holder adjacent to a seating arrangement in a vehicle or a boat may result, not only in spillage of the beverage or food, but may also cause the operator of the vehicle or boat to be dangerously distracted.

In cup holders used in conjunction with seating arrangements in a boat, not being able to locate a cup holder during hours of darkness may result in beverage and food containers falling overboard and contributing to pollution of the waterway in which the boat is operating. In movie theater seating arrangements, spillage of beverages and food items, caused by inability to accurately locate a cup holder, may significantly increase the time and cost required for cleaning of the theater and lead to customer dissatisfaction with a general lack of cleanliness, sticky floors, or wet seats.

It is desirable, therefore, to provide an improved apparatus and method for incorporating cup holders into seating

arrangements which are commonly used in darkness or reduced visibility, in such a manner that the cup holder is easier to locate in darkness or under reduced visibility conditions. It is further desirable that such improvements be made in a form which can be readily incorporated into existing seating arrangements, in a manner which is unobtrusive and does not require any additional effort on the part of an occupant of the seating arrangement to utilize the cup holder.

### SUMMARY OF THE INVENTION

The disadvantages and limitations of the background art discussed above are overcome by the present invention. The invention provides an improved apparatus and method for constructing and using a cup holder in a seating arrangement, by attaching a lighted cup holder to the seating arrangement. The lighted cup holder includes a cup holder body and a light-producing light source, with the cup holder body being attached to the seating arrangement and having a cup receptacle therein, and the light-producing source being disposed within the cup receptacle for illuminating the receptacle. Illuminating the cup holder, with a light source disposed within the receptacle of the cup holder significantly facilitates location and proper use of the cup holder during reduced visibility or total darkness conditions, through the use of indirect lighting in a manner which is inconspicuous and non-distracting to an occupant of the seating arrangement.

In some forms of the invention, a light-sensitive element is operatively connected to the light source for selectively controlling the light source, in such a manner that the light source does not produce light when the light-sensing element detects ambient light of a selected intensity. In this manner, illumination of the cup holder is automatically provided only under conditions where visibility is reduced to the point that it becomes difficult to locate the cup holder.

Some forms of the invention include a master lighted cup holder and one or more slave lighted cup holders operatively connected to the master lighted cup holder in such a manner that the light sources in the slave lighted cup holders produce light only when commanded to do so by the master lighted cup holder. The master lighted cup holder may include a light-sensitive element, mounted on the body of the master lighted cup holder, and operatively connected to the light sources of both the master and slave lighted cup holders, for selectively controlling production of light by the light sources in both the master and slave cup holders in such a manner that the light-sensitive element causes the light sources to not produce light when the light-sensitive element detects ambient light of a selected intensity.

In some forms of the invention, a lighted element is disposed within the cup receptacle and operatively connected to the light source for receiving light from the light source and illuminating the receptacle. The lighted element may take a variety of forms, such as an elongated member of translucent material having the light source attached thereto. The elongated member of translucent material may form a ring having an inner periphery thereof sized to allow for passage therethrough of a cup to be held by the cup holder.

A cup holder body, according to the invention may include a substantially tubular side wall which is substantially closed at a lower end thereof by a bottom wall, and open at a top end thereof, such that the tubular side wall and bottom define the cup holding receptacle. The lighted element may be attached within the receptacle, adjacent to the bottom wall of the cup holder. The tubular side wall may further be stepped inward to form a mounting surface for the lighted element, with the lighted element being mounted on the mounting surface.

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In some forms of the invention, a light-sensitive element may be mounted remotely from the cup holder body. In other forms of the invention, the light-sensitive element may be mounted on the cup holder body. Where the light-sensitive element is mounted on the cup holder body, the cup holder body may include a substantially tubular side wall defining an axis of the cup holder, a bottom wall substantially closing the lower end of the cup holder, and an open top end of the cup holder having a flange extending substantially radially outward from the tubular side wall, such that the tubular side wall and bottom wall define the cup holding receptacle. The lighted element may be attached within the receptacle adjacent to the bottom wall of the cup holder body, with the light-sensitive element being attached to the flange at the upper end of the cup holder for receiving ambient light and pinging on the upper end of the cup holder.

A lighted cup holder, according to the invention, may be provided in a form which is substantially identical to non-lighted cup holders previously used in seating arrangements, to thereby facilitate incorporation of embodiments of the invention into new seating arrangements and retro-fitting of embodiments of the invention into existing seating arrangements.

Some embodiments of the invention may further include incorporation of additional features into the lighted cup holder. For example, in seating arrangements including a massaging mechanism, a lighted cup holder, according to the invention, may include a massage controller operatively connected to the massaging mechanism for control thereof, with the massage controller having a user-controllable input for operating the massaging mechanism. The body of a cup holder, according to the invention, may include a flange extending outwardly therefrom, for example, into which a massage controller, or other devices such as a USB connector, or other types of controls or connectors as appropriate.

The invention may be utilized on seating arrangements having cup holders mounted on folding backrests, or other stowable portions of the seating apparatus. In such embodiments, a lighted cup holder apparatus, according to the invention, may include a positionable actuated on-off switch configured to automatically override the light-sensitive element, to turn off the illumination when the movable portion of the seating arrangement is placed in the stowed position.

A lighted cup holder apparatus, according to the invention, may include a seating arrangement with one or more lighted cup holders attached thereto. The invention may also be practiced in the form of a method for constructing or operating a lighted cup holder apparatus, according to the invention.

Other aspects, objects and advantages of the invention will be apparent from the following detailed description and drawings of exemplary embodiments.

#### DESCRIPTION OF THE DRAWINGS

The accompanying drawings incorporated in and forming a part of the specification illustrate several aspects of the present invention, and together with the description serve to explain the principles of the invention. In the drawings:

FIG. 1 is a perspective illustration of a first exemplary embodiment of a lighted cup holder apparatus, according to the invention, including a lighted cup holder circuit having one master and three slave lighted cup holders attached to a seating arrangement;

FIG. 2 is a schematic illustration of the lighted cup holder circuits of the exemplary embodiment of FIG. 1;

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FIG. 3 is a partially cut-away perspective illustration of the master lighted cup holder of the exemplary embodiment of FIG. 1;

FIG. 4 is a partially cut-away perspective illustration of one of the slave lighted cup holders of the exemplary embodiment of FIG. 1;

FIG. 5 is an electrical schematic illustrating an electrical circuit of an exemplary embodiment of the invention;

FIG. 6 is a perspective illustration of a second exemplary embodiment of a lighted cup holder apparatus, according to the invention, including a seating arrangement to which the master and slave lighted cup holders are attached in a different manner than the exemplary embodiment of FIG. 1; and

FIG. 7 is a perspective illustration of a third exemplary embodiment of the invention, in the form of a lighted cup holder having attached thereto control and signal connections for functions of a seating arrangement not directly related to operation of the illumination circuit of the lighted cup holder.

While the invention will be described in connection with certain preferred embodiments, there is no intent to limit it to those embodiments. On the contrary, the intent is to cover all alternatives, modifications and equivalents as included within the spirit and scope of the invention as defined by the appended claims.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

FIG. 1 shows a first exemplary embodiment of a lighted cup holder apparatus 100, according to the invention, including a seating arrangement 102, and a lighted cup holder circuit 104, including a master lighted cup holder 106, three slave lighted cup holders 108, and a transformer 110. Electrical interconnection between the master lighted cup holder, the three slave lighted cup holders 108, and the transformer 110 are illustrated schematically in FIG. 2. Construction of the master and slave lighted cup holders 106, 108 is described in greater detail below.

As shown in FIG. 1, the seating arrangement 102 of the first exemplary embodiment of the lighted cup holder apparatus 100, according to the invention, includes three upholstered reclining chair portions 112, having upholstered armrests 114 located on either side of the reclining chair portions 112, to form a furniture unit of the type commonly marketed for use with home theater equipment. The master and slave lighted cup holders 106, 108 are located in the armrests 108, to thereby provide ready access to occupants of the seating arrangement 102.

As shown in FIG. 2, the master lighted cup holder includes a cup holder controller 116, having a first electrical connection A with the transformer 110, and a second electrical connector B, for connection thereto of one of the slave lighted cup holders 108 through a mating connector D of the slave lighted cup holder 108. Each of the slave lighted cup holders 108 includes an additional electrical connector C, which is mateable with a corresponding connector D of an adjacent slave lighted cup holder 108, such that all of the slave lighted cup holders 108 are operatively connected to be controlled by the cup holder controller 116 of the master lighted cup holder 106.

As shown in FIG. 3, the master lighted cup holder 106 includes a cup holder body 118, a light producing light source 120, a lighted element 122 and a light-sensitive element 124. The lighted element 122, of the exemplary embodiment, takes the form of an elongated member of translucent material, formed into a ring, and having the light source 120 attached thereto for illuminating the lighted element 122. It is contemplated

plated that the lighted element would be formed from a transparent or translucent material such as plastic or glass, a portion of a fiber optic cable, or from any other appropriate material.

The cup holder body **118** is adapted for attachment to the armrests **114** of the seating arrangement **102**. The cup holder body **118**, of the exemplary embodiment, includes a substantially tubular side wall **126** which is substantially closed at a lower end thereof by a bottom wall **128** and open at a top end **130** thereof, such that the tubular side wall **118** and bottom wall **128** define a cup holding receptacle **132**. In other embodiments of the invention, the side wall **126** and bottom wall **128** may include one or more slots or holes therethrough.

The tubular side wall **126** of the cup holder body **118** also defines an axis **134** of the master lighted cup holder **106**, and the cup holder body **118** further includes a flange **136** extending substantially radially outward from the tubular side wall **126** at the open top end **130** of the cup holder **106**.

The tubular side wall **126** is stepped inward, adjacent the bottom wall **128**, to form a mounting surface **138** adjacent the bottom wall **128**. The lighted element **122** is mounted on the mounting surface **138**, within the receptacle **132**, adjacent the bottom wall **128** of the cup holder body **118**.

By virtue of this arrangement, both the lighted element **122** and the light source **120** attached to the lighted element **122** are located within the receptacle **132** adjacent the bottom wall **128** of the cup holder body **118**. In the exemplary embodiment, the light source is a light emitting diode (LED), but, in other embodiments of the invention, any other appropriate light source may be utilized. LED's are particularly well suited for use as the light source **120** because they produce much less heat than incandescent bulbs.

The light-sensitive element **124** is attached to, and extends through the flange **136** at the top end **130** of the body **118** of the cup holder **106**, in such a manner that a light sensitive surface **140** of the light-sensitive element **124** is exposed to ambient light impinging upon an upper surface of the flange **136**.

The light source **120** and light-sensitive element **124**, of the master lighted cup holder **106**, are operatively connected to one another, and the electrical connectors A, B by the cup holder controller **116** in such a manner that the cup holder controller **116** will only allow electrical power from the connector A to reach the light source **120** and the electrical connector B of the master lighted cup holder **106** when ambient light, as detected by the light sensitive surface **140** of the light-sensitive element **124** drops below a pre-selected lower threshold of intensity. Conversely, when ambient light falling upon the light sensitive surface **140** of the light-sensitive element **124** exceeds a second pre-selected threshold, the light-sensitive element **124** will signal the cup holder **116** to cut off power to the light source **120** and the connector B of the master lighted cup holder **106**.

As shown in FIG. 4, the slave lighted cup holders **108**, of the exemplary embodiment of the first exemplary embodiment of the lighted cup holder apparatus **100**, are essentially identical to the master lighted cup holder **106**, with the exemption that the slave lighted cup holders **106** do not include the light-sensitive element **124** or the cup holder controller **116**. For purposes of manufacturing economy and inventory reduction, the cup holder body **118**, lighted element **122** and light source **120**, of the slave lighted cup holders **108** are identical to the equivalent parts of the master lighted cup holder **106**, in the exemplary embodiments of the invention specifically described herein. It will be understood, however,

that in other embodiments of the invention, the master and slave lighted cup holders **106**, **108** need not have identical configurations.

As discussed above, in relation to FIG. 2, the light source **120** of the slave lighted cup holders **108** is connected to a first electrical connector D configured to mate with and receive electrical power from the connector B of the master lighted cup holder **106**. The light source **120** of the slave cup holder **108**, of the exemplary embodiment, also is operatively connected to provide power through an output connector C which is configured to mate with the input connector D of another one of the slave lighted cup holders **108**. In the exemplary embodiment of the invention, all of the slave lighted cup holders are identical, with each including both the input connector D and the output connector C. It will be recognized, however, by those having skill in the art, that in other embodiments of the invention, the output connector C may be eliminated from the slave lighted cup holder **108** at the distal end of the lighted cup holder circuit **104** shown in FIG. 2.

Although not specifically shown in the drawings discussed thus far, it will be understood that the invention may be practiced with multiple light sources **120** attached to a common lighted element **122**, or multiple lighted elements **122**, in other embodiments of the invention. FIG. 5 is an electrical schematic illustrating the internal electrical construction of the cup holder controller **116**, transformer **110**, and master and slave lighted cup holders **106**, **108**, in an embodiment of the invention where both the master and slave lighted cup holders **106**, **108** each include two light sources **120** in the form of light emitting diodes. In other forms of the invention having lighted cup holders located in a folding backrest, or other stowable structure, which would block ambient light from impinging on the light-sensitive element when the stowable structure is in the stowed position, the electrical construction of the invention may also include a positionally actuated on-off switch (not shown) for over-riding the light-sensitive element when the stowable structure is in the stowed position.

Those having skill in the art will recognize, that the invention is not limited to use with the specific seating arrangement **102** shown in FIG. 1, as described above. For example, as shown in FIG. 6, a second exemplary embodiment of a lighted cup holder apparatus **200**, according to the invention, includes a seating arrangement **202** having three upholstered reclining chair portions **206** connected by modular spacing units **204**, disposed between the three upholstered reclining chair portions **204**. The modular spacers **206** each include an upholstered armrest **208**. Master and slave lighted cup holders **106**, **108**, configured and connected in the manner described above in relation to the first exemplary embodiment **100**, are mounted in the modular spacers **206**, within easy reach of occupants of the chair portions **204**.

FIG. 7 shows another exemplary embodiment of a lighted cup holder **300**, according to the invention, in which a flange **302** of the cup holder body **304** includes an expanded section **306** thereof, for mounting therein of a control switch **308** for a massage mechanism of a seating arrangement, and a USB port **310**. As will be understood, by those having skill in the art, various other types of controls and connections may alternatively be included in a flange, or be otherwise attached to a lighted cup holder, according to the invention. For example, other types of outputs for connection of an audio headset may be provided, together with an individual volume control for each of the occupants using the seating arrangement. In similar fashion, for seating arrangements which do not have a massager, but may, for example, have a powered, reclining mechanism, appropriate controls may be included in a lighted

cup holder, according to the invention. By incorporating such controls and connectors into the lighted cup holder, construction of the seating arrangement may be simplified, and aesthetic appearance be approved.

The use of the terms “a” and “an” and “the” and similar referents in the context of describing the invention (especially in the context of the following claims) is to be construed to cover both the singular and the plural, unless otherwise indicated herein or clearly contradicted by context. The terms “comprising,” “having,” “including,” and “containing” are to be construed as open-ended terms (i.e., meaning “including, but not limited to,”) unless otherwise noted. Recitation of ranges of values herein are merely intended to serve as a shorthand method of referring individually to each separate value falling within the range, unless otherwise indicated herein, and each separate value is incorporated into the specification as if it were individually recited herein. All methods described herein can be performed in any suitable order unless otherwise indicated herein or otherwise clearly contradicted by context. The use of any and all examples, or exemplary language (e.g., “such as”) provided herein, is intended merely to better illuminate the invention and does not pose a limitation on the scope of the invention unless otherwise claimed. No language in the specification should be construed as indicating any non-claimed element as essential to the practice of the invention.

Although the foregoing description of the present invention has been shown and described with reference to particular embodiments and applications thereof, it has been presented for purposes of illustration and description and is not intended to be exhaustive or to limit the invention to the particular embodiments and applications disclosed. It will be apparent to those having ordinary skill in the art that a number of changes, modifications, variations, or alterations to the invention as described herein may be made, none of which depart from the spirit or scope of the present invention. The particular embodiments and applications were chosen and described to provide the best illustration of the principles of the invention and its practical application to thereby enable one of ordinary skill in the art to utilize the invention in various embodiments and with various modifications as are suited to the particular use contemplated. All such changes, modifications, variations, and alterations should therefore be seen as being within the scope of the present invention as determined by the appended claims when interpreted in accordance with the breadth to which they are fairly, legally, and equitably entitled.

What is claimed is:

1. A lighted cup holder apparatus for a seating arrangement, the apparatus comprising: at least one lighted cup holder having a cup holder body and a light-producing light source, with the cup holder body being adapted for attachment to the seating arrangement and having a cup receptacle therein, and the light-producing light source being disposed within the receptacle for illuminating the receptacle; and

a lighted element disposed within the cup receptacle and operatively connected to the light source for receiving light from the light source and illuminating the receptacle;

wherein the lighted element comprises an elongated member of translucent material having the light source attached thereto;

wherein the cup holder body includes a substantially tubular sidewall, substantially closed at a lower end thereof by a bottom wall, and open at a top end thereof, such that the tubular sidewall and bottom wall define the cup

holding receptacle, and wherein the side wall or the bottom wall include one or more slots or holes there-through;

wherein the lighted element is attached within the receptacle adjacent to the bottom wall of the cup holder body and mounted upon a mounting surface, the tubular sidewall is stepped inward adjacent to the bottom wall to form the mounting surface.

2. A lighted cup holder apparatus as defined in claim 1, wherein the lighted cup holder further comprises a USB connector mounted on the lighted cup holder.

3. A lighted cup holder apparatus as defined in claim 1, further comprising: a light-sensitive element, operatively connected to the light source for selectively controlling production of light by the light source.

4. A lighted cup holder apparatus as defined in claim 3, wherein the light-sensitive element causes the light source to not produce light when the light-sensing element detects ambient light of a selected intensity.

5. A lighted cup holder apparatus as defined in claim 4, wherein the light-sensitive element is mounted on the cup holder body.

6. A lighted cup holder apparatus for a seating arrangement, the apparatus comprising: at least one lighted cup holder having a cup holder body, a light-producing light source, and a lighted element including an elongated member of translucent material having the light source attached thereto to be illuminated thereby;

the cup holder body being adapted for attachment to the seating arrangement, and including a substantially tubular sidewall, substantially closed at a lower end thereof by a bottom wall, and open at a top end thereof, such that the tubular sidewall and the bottom wall define a cup holding receptacle, and wherein the side wall or the bottom wall include one or more slots or holes there-through; and

wherein the lighted element is attached within the receptacle adjacent to the bottom wall of the cup holder body and mounted upon a mounting surface, wherein the tubular sidewall is stepped inward adjacent to the bottom wall to form the mounting surface.

7. A lighted cup holder apparatus as defined in claim 6, further comprising: a light-sensitive element mounted on the cup holder body and operatively connected to the light source for selectively controlling production of light by the light source, in such a manner that the light-sensitive element causes the light source to not produce light when the light-sensing element detects ambient light of a selected intensity.

8. A lighted cup holder apparatus as defined in claim 7, wherein: the tubular sidewall of the cup holder body defines an axis of the cup holder, and includes a flange extending substantially radially outward from the tubular sidewall, and the light sensing element is attached to the flange for receiving ambient light impinging on the light sensing element.

9. A lighted cup holder apparatus as defined in claim 8, wherein: the lighted cup holder defined in claim 8 is a master lighted cup holder; and wherein the lighted cup holder apparatus further comprises: a slave lighted cup holder substantially identical to the master lighted cup holder but not including a light sensing element; and the light-sensitive element mounted on the body of the master lighted cup holder is operatively connected to the light sources of both the master and slave lighted cup holders, for selectively controlling production of light by the light sources in both the master and slave lighted cup holders in such a manner that the light-

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sensitive element causes the light sources to not produce light when the light-sensing element detects ambient light of a selected intensity.

10. A lighted cup holder apparatus as defined in claim 1, further comprising a flange extending substantially radially outward from the tubular side wall at the open top end of the cup holder.

11. A lighted cup holder apparatus as defined in claim 10, wherein a light-sensitive element is attached to and extends through said flange at the top end of said body of said cup holder.

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12. A lighted cup holder apparatus as defined in claim 10, wherein said flange comprises an expanded section comprising a control switch or connection.

13. A lighted cup holder apparatus as defined in claim 12, wherein said connection is selected from the group consisting of a USB port and an audio headset connection.

14. A lighted cup holder apparatus as defined in claim 12, wherein said control switch is selected from the group consisting of a reclining mechanism control switch, massage mechanism control switch and volume control switch.

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