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Ehrlich

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(54) **PULMONARY ARTERY HEAD CATHETER HOLDER**

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This patent is subject to a terminal disclaimer.

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A61B 5/0215 (2006.01)

A61B 5/00 (2006.01)

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

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(58) **Field of Classification Search**

CPC **A61M 2025/0206**; **A61M 25/02**; **A61M 2025/0213**; **A61M 2025/022**; **A61M 2025/0226**; **A61M 2025/0253**; **A61M 2210/06**

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,308,642 A *	1/1982	Heyman	.....	A44B 99/00
				128/DIG. 26
5,131,412 A *	7/1992	Rankin	.....	A61F 5/3761
				128/869
5,188,101 A *	2/1993	Tumolo	.....	A61M 25/02
				128/101.1
7,473,816 B2 *	1/2009	Hall	.....	A61F 13/08
				602/41
2008/0103456 A1 *	5/2008	Johnson	.....	A61B 5/6864
				604/264
2013/0306081 A1 *	11/2013	Devapatla	A61F 5/0193
				128/876

* cited by examiner

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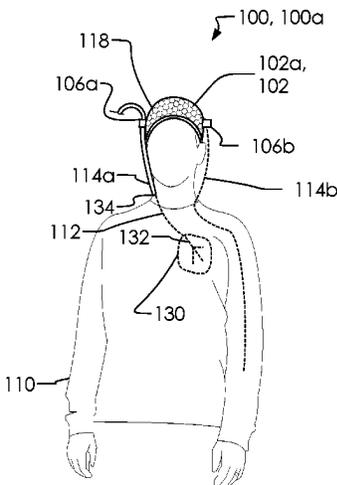
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(57) **ABSTRACT**

A catheter holder assembly for selectively holding a portion of a one or more catheter tubes to a head of a user. Comprising head mount assembly, a one or more catheter holders, the one or more catheter tubes, a catheter. The one or more catheter holders comprise a first catheter holder. The one or more catheter holders are attached to the head mount assembly. Head mount assembly is configured to releaseably attach to the head of the user. The one or more catheter holders releaseably hold the one or more catheter tubes. The one or more catheter tubes each comprise the catheter at a first end being a downstream of the one or more catheter holders and an IV bag at a second end being an upstream of the one or more catheter holders. The catheter is configured to attach to a portion of the user at an insertion point.

10 Claims, 8 Drawing Sheets



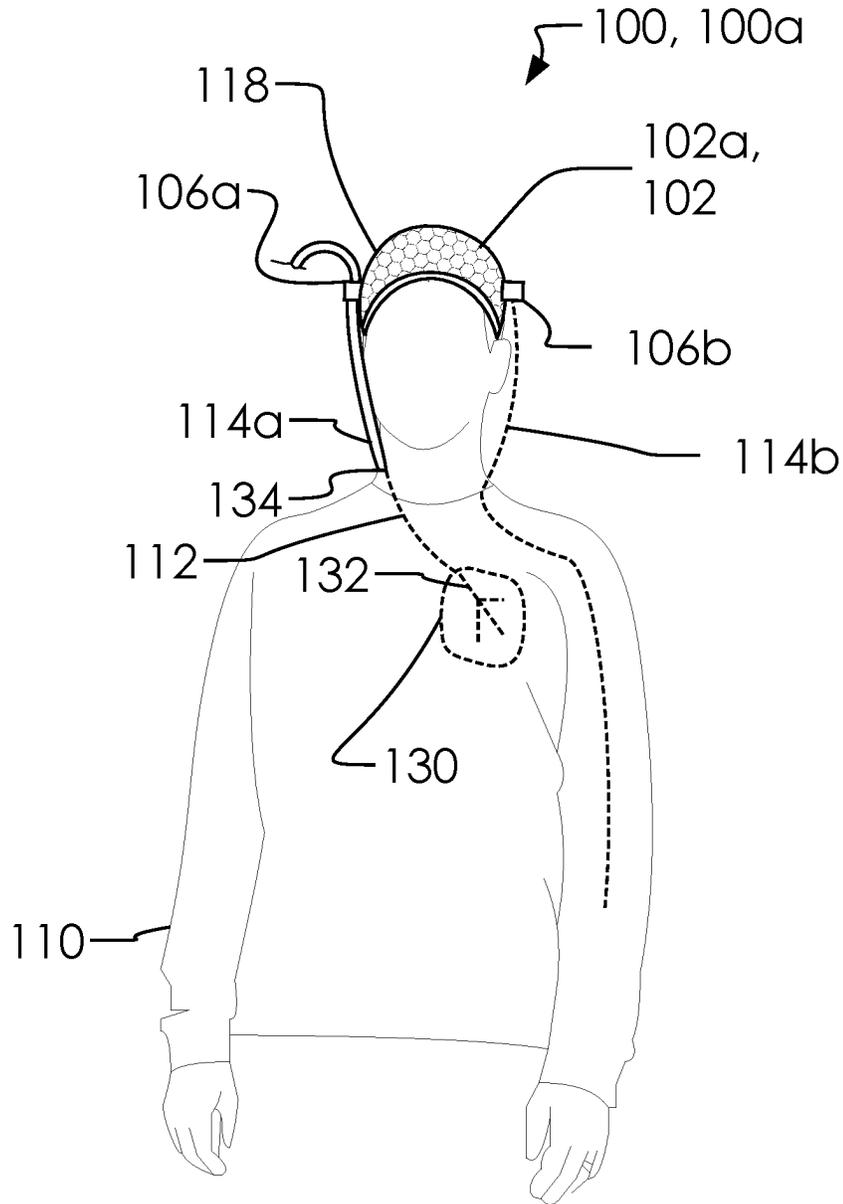


FIG. 1

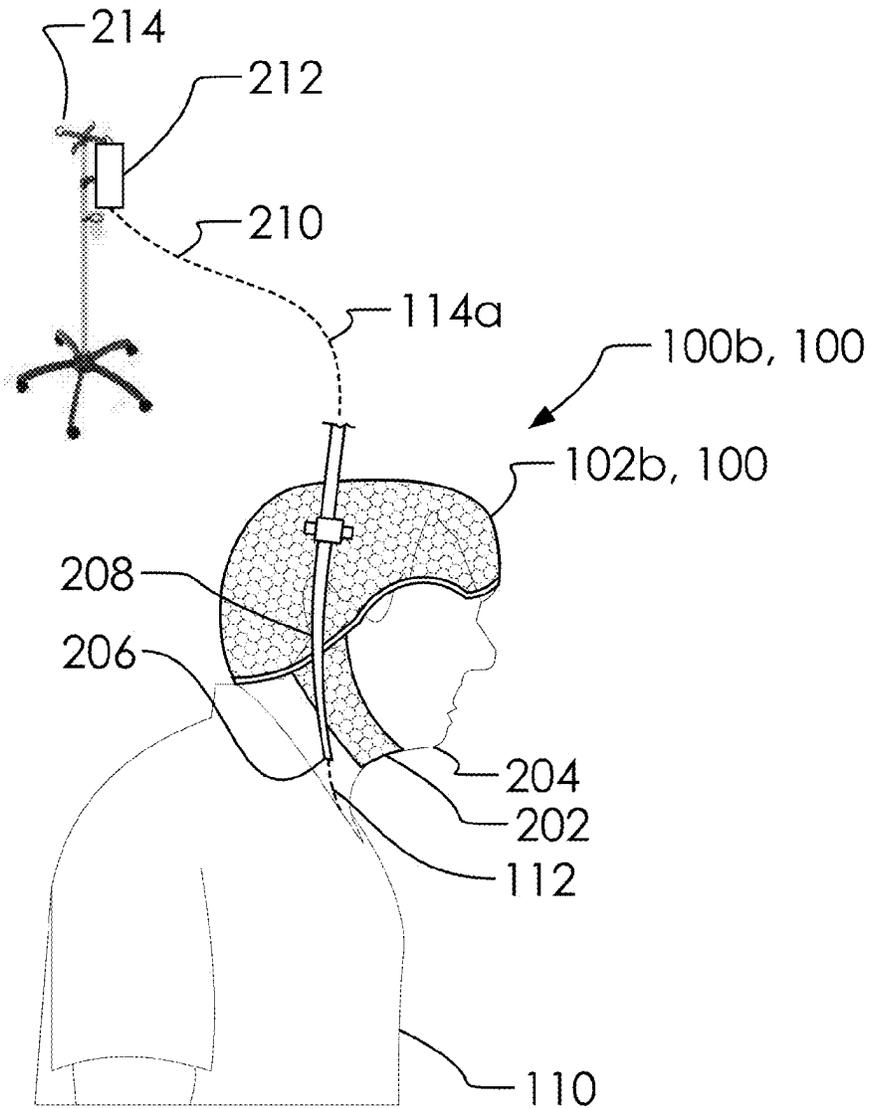


FIG. 2

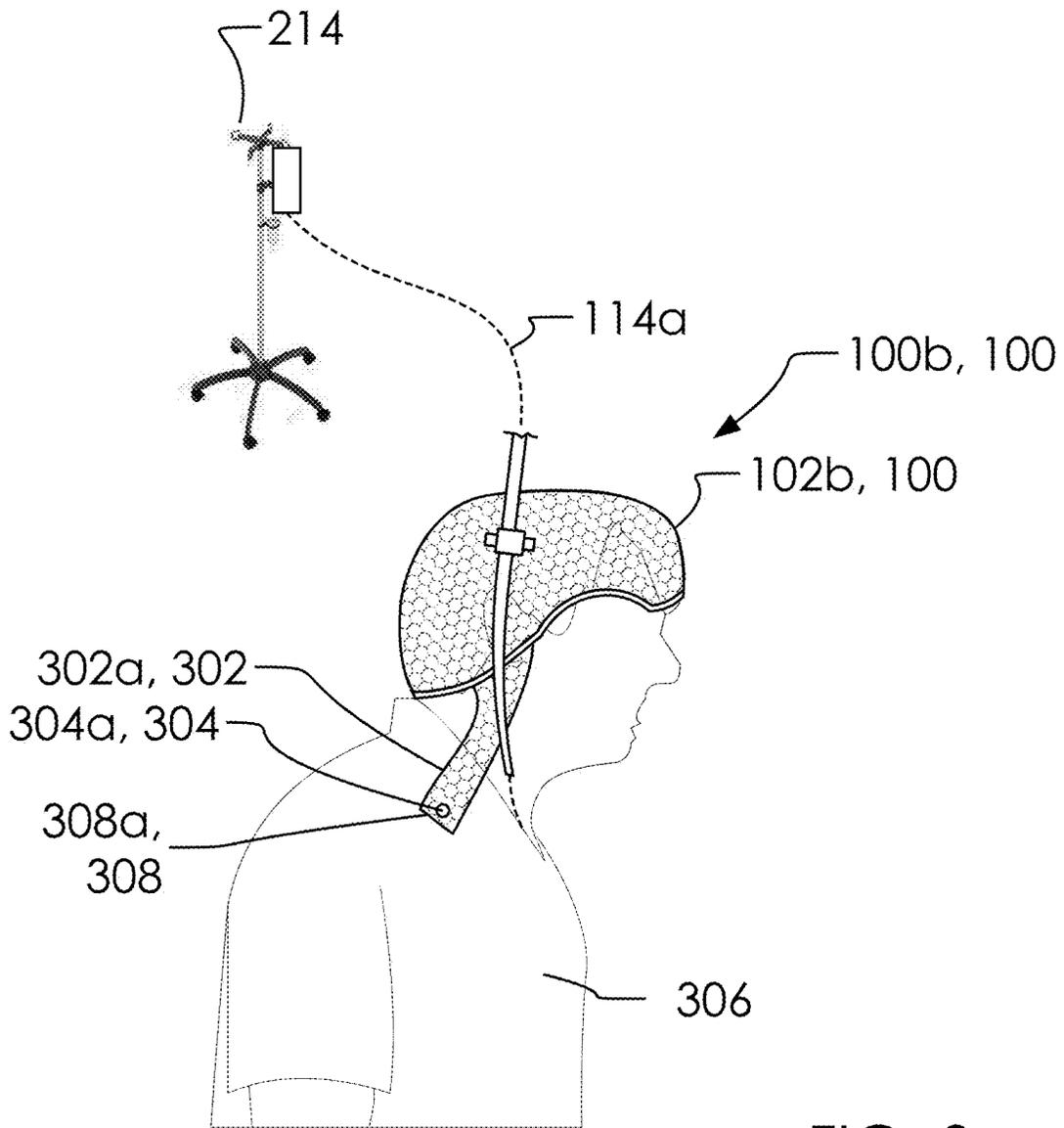


FIG. 3

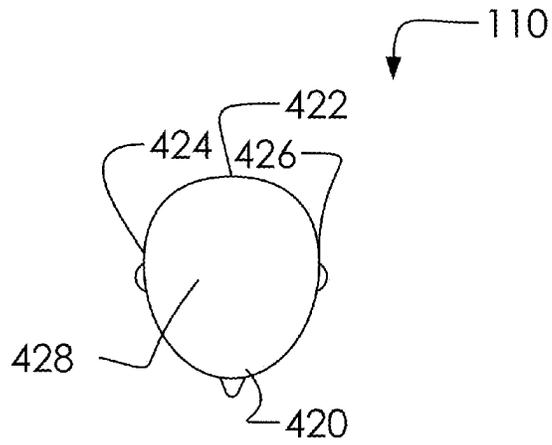


FIG. 4A

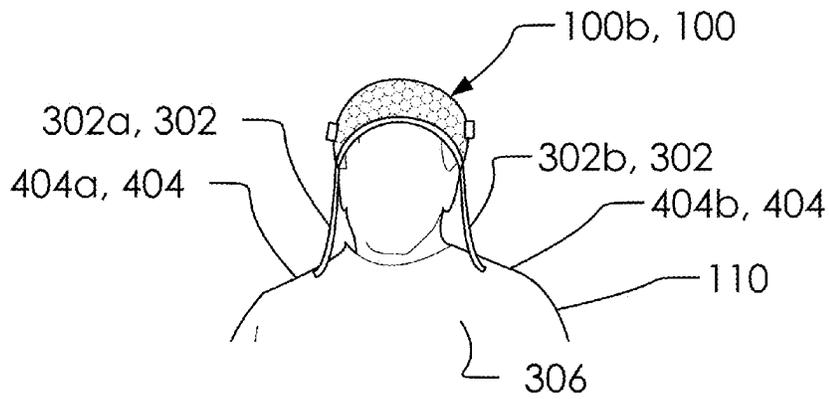
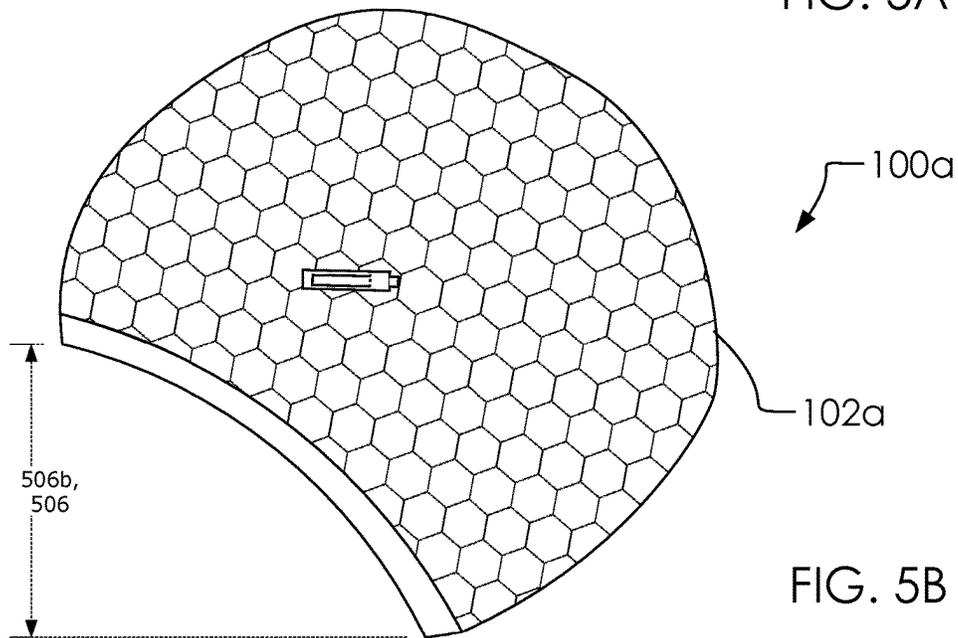
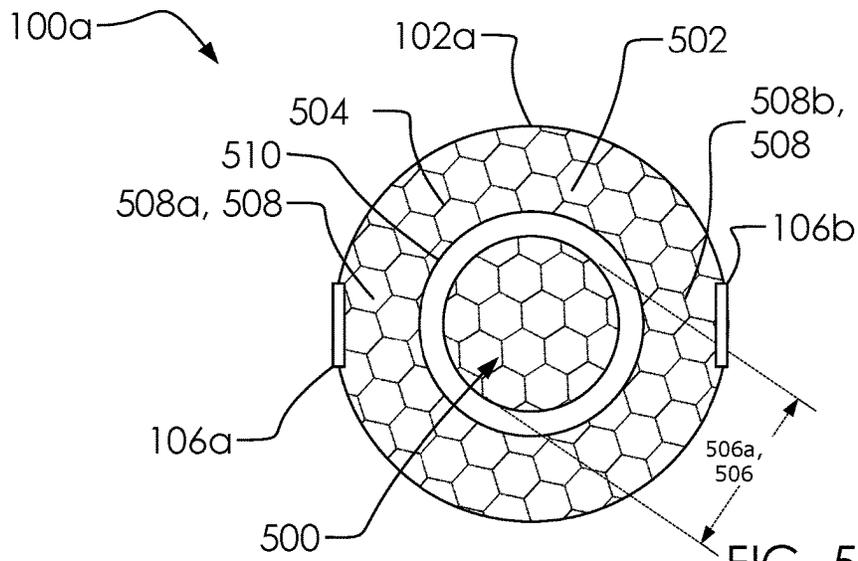


FIG. 4B



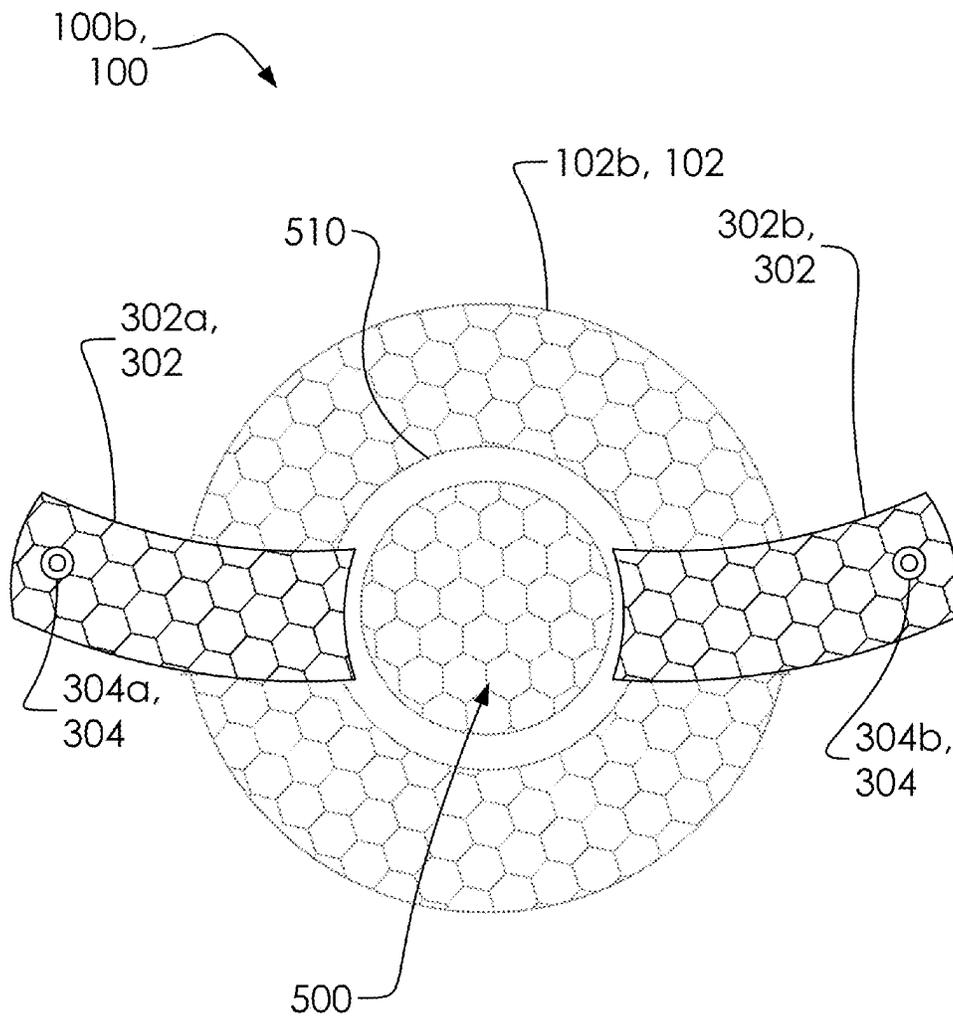


FIG. 6

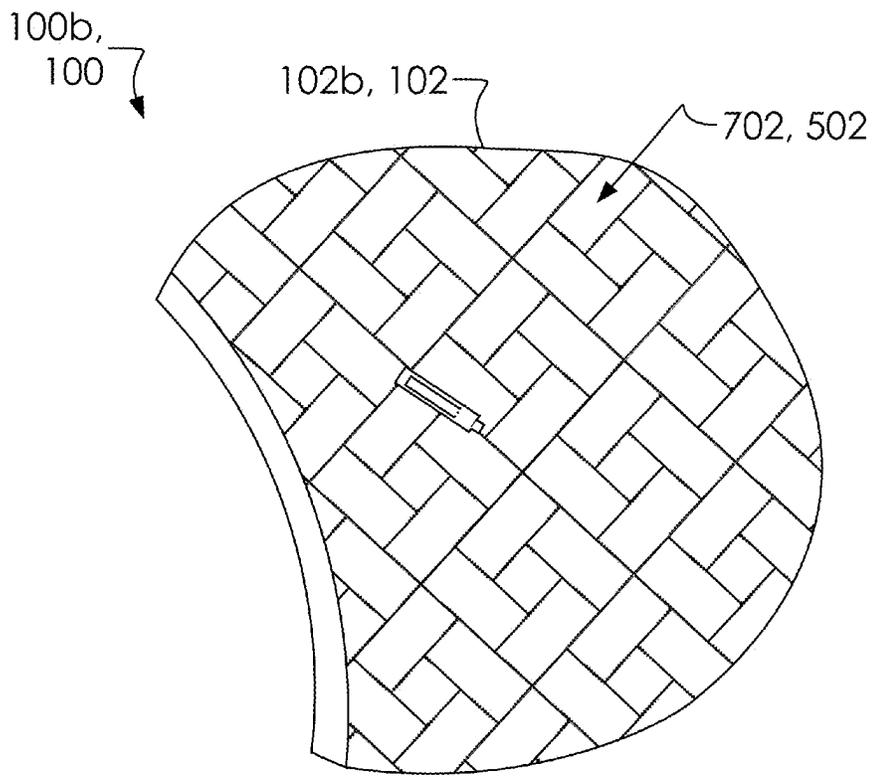


FIG. 7

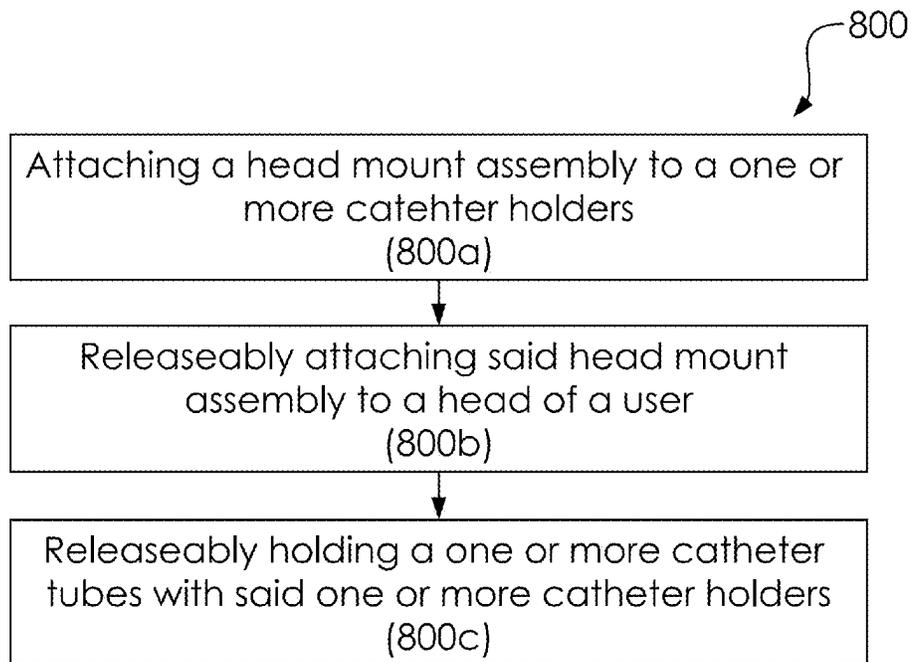


FIG. 8

**PULMONARY ARTERY HEAD CATHETER
HOLDER**

CROSS-REFERENCE TO RELATED
APPLICATIONS

This application claims benefit to US Patent Application Number(s) Ser. No. 14/335,079 filed on Jul. 18, 2014.

STATEMENT REGARDING FEDERALLY
SPONSORED RESEARCH OR DEVELOPMENT
(IF APPLICABLE)

Not applicable.

REFERENCE TO SEQUENCE LISTING, A
TABLE, OR A COMPUTER PROGRAM LISTING
COMPACT DISC APPENDIX (IF APPLICABLE)

Not applicable.

BACKGROUND OF THE INVENTION

None of the known inventions and patents, taken either singularly or in combination, is seen to describe the instant disclosure as claimed.

BRIEF SUMMARY OF THE INVENTION

A catheter holder assembly for selectively holding a portion of a one or more catheter tubes to a head of a user. Comprising head mount assembly **102**, a one or more catheter holders, said one or more catheter tubes, a catheter. Said one or more catheter holders comprise a first catheter holder. Said one or more catheter holders are attached to said head mount assembly **102**. head mount assembly **102** is configured to releaseably attach to said head of said user. Said one or more catheter holders releaseably hold said one or more catheter tubes. Said one or more catheter tubes each comprise said catheter at a first end being a downstream of said one or more catheter holders and an IV bag at a second end being an upstream of said one or more catheter holders. Said catheter is configured to attach to a portion of said user at an insertion point. Said catheter holder assembly is configured to relieve stress between said catheter and said user by supporting one or more catheter tubes **114** between said insertion point and said IV bag. Said one or more catheter holders are positioned above said insertion point. head mount assembly **102** comprises a mesh portion and a rim. Said mesh portion wraps around a portion of said head. Said mesh portion attaches around a circumference of said rim. head mount assembly **102** is configured to slide onto said head by stretching said rim around said head, and pressing a portion of said mesh portion into a vertex of said head. Said one or more catheter holders attach to a portion of said head mount assembly **102**.

A method of use steps for a catheter holder assembly comprising: a first method of use step comprising attaching head mount assembly **102** to a one or more catheter holders. A second method of use step comprising releaseably attaching head mount assembly **102** to a head of a user, and. A third method of use step comprising releaseably holding a one or more catheter tubes with said one or more catheter holders. Wherein. head mount assembly **102** comprising a mesh portion and a rim. Said mesh portion is attached to a circumference of said rim. Said rim comprises a head aperture. head mount assembly **102** is configured to selec-

tively attach to said head by stretching a portion of said rim around said head, sliding a portion of said head through said head aperture. Said rim comprises a one or more aperture diameters. Said rim comprises and elastic material. Said one or more aperture diameters vary depending on pressure applied to said rim.

BRIEF DESCRIPTION OF THE SEVERAL
VIEWS OF THE DRAWING

FIG. **1** illustrates a perspective overview view of a catheter holder assembly **100a**.

FIG. **2** illustrates a perspective overview view of a catheter holder assembly **100b**.

FIG. **3** illustrates a perspective overview view of a one or more straps **302**.

FIG. **4A** illustrates an elevated top side view of a head **118**.

FIG. **4B** illustrates a perspective overview view of a catheter holder assembly **100b**.

FIG. **5A** illustrates an elevated bottom side view of a catheter holder assembly **100a**.

FIG. **5B** illustrates an elevated first side view of a catheter holder assembly **100a**.

FIG. **6** illustrates an elevated bottom side view of a catheter holder assembly **100b**.

FIG. **7** illustrates an elevated first side view of a woven strands **702**.

FIG. **8** illustrates a flow chart view of a method of use steps **800**.

DETAILED DESCRIPTION OF THE
INVENTION

The following description is presented to enable any person skilled in the art to make and use the invention as claimed and is provided in the context of the particular examples discussed below, variations of which will be readily apparent to those skilled in the art. In the interest of clarity, not all features of an actual implementation are described in this specification. It will be appreciated that in the development of any such actual implementation (as in any development project), design decisions must be made to achieve the designers' specific goals (e.g., compliance with system- and business-related constraints), and that these goals will vary from one implementation to another. It will also be appreciated that such development effort might be complex and time-consuming, but would nevertheless be a routine undertaking for those of ordinary skill in the field of the appropriate art having the benefit of this disclosure. Accordingly, the claims appended hereto are not intended to be limited by the disclosed embodiments, but are to be accorded their widest scope consistent with the principles and features disclosed herein.

These parts are illustrated in the figures and discussed below:

- a catheter holder assembly **100**
- a catheter holder assembly **100a**
- a catheter holder assembly **100b**
- head mount assembly **102**
- a first head mount assembly **102a**
- a second head mount assembly **102b**
- a one or more catheter holder **106** comprising a first catheter holder **106a** and a second catheter holder **106b**
- a user **110**
- a pulmonary artery **112**
- a one or more catheter tubes **114**

a first catheter tube **114a**
 a second catheter tube **114b**
 a head **118**
 a heart **130**
 a passages **132**
 a catheter **134**
 a chin strap **202**
 a chin **204**
 an insertion point **206**
 a downstream **208**
 an upstream **210**
 an IV bag **212**
 an IV stand **214**
 a one or more straps **302**
 a first strap **302a**
 a second strap **302b**
 a one or more fasteners **304**
 a first fastener **304a**
 a second fastener **304b**
 a gown **306**
 a one or more shoulder fasteners **308**
 a first shoulder fastener **308a**
 a second shoulder fastener **308b**
 a two shoulders **404**
 a first shoulder **404a**
 a second shoulder **404b**
 a front **420**
 a back **422**
 a first side **424**
 a second side **426**
 a vertex **428**
 a head aperture **500**
 a mesh portion **502**
 a woven strands **504**
 a one or more aperture diameters **506**
 a first aperture diameter **506a**
 a second aperture diameter **506b**
 a one or more sides **508**
 a first side **508a**
 a second side **508b**
 a rim **510**
 a woven strands **702**
 a method of use steps **800**
 a first method of use step **800a**
 a second method of use step **800b**
 a third method of use step **800c**

FIG. 1 illustrates a perspective overview view of a catheter holder assembly **100a**.

In one embodiment, said catheter holder assembly **100** can comprise said catheter holder assembly **100a**, said catheter holder assembly **100b** and said one or more catheter holders **106**.

In one embodiment, said catheter holder assembly **100a** can comprise said head mount assembly **102** (which can comprise said first head mount assembly **102a** and/or said second head mount assembly) and said one or more catheter holders **106**.

In one embodiment, said catheter holder assembly **100b** can comprise said second head mount assembly **102b** and said one or more catheter holders **106**.

In one embodiment, said user **110** can comprise said pulmonary artery **112**, said head **118**, said heart **130** and said passages **132**.

In one embodiment, said one or more catheter holders **106** can comprise said first catheter holder **106a** and said second catheter holder **106b**.

In one embodiment, said one or more catheter tubes **114** can comprise said first catheter tube **114a** and said second catheter tube **114b**.

In one embodiment, said first head mounted catheter holder assembly **100a** can comprise a first head mount assembly **102a** and one or more catheter holders **106**.

In one embodiment, said first head mount assembly **102a** can comprise a snood, a hairnet or similar.

In one embodiment, said first head mount assembly **102a** can attach to or fit over a head **118** of a user **110**. In one embodiment, one or more catheter holders **106** can hold a portion of one or more catheter tubes **114** (which can comprise a first catheter tube **114a** and a second catheter tube **114b**).

As is known in the art, said one or more catheter tubes **114** can attach to a pulmonary artery **112** (or another artery or a vein of a patient) of said user **110**.

In one embodiment, said first catheter tube **114a** can pass through a portion of said one or more catheter holders **106**; wherein, one or more catheter holders **106** can wrap around a portion of said one or more catheter tubes **114** to secure said one or more catheter tubes **114** to said first head mount assembly **102a** or a second head mount assembly **102b** (as described below).

In the prior art, said one or more catheter tubes **114** is often taped to said user **110** in order to prevent rubbing and dislodging from said user **110**. A problem arises for users when said first catheter tube **114a** is to be kept in said user **110** for an extended period of time. For example, in the present case, attaching said first catheter tube **114a** to said user **110** with tape allows for the collection of germs on the tape and, ultimately, infection in the pulmonary artery **112**. Likewise, the prior art does not secure said first catheter tube **114a** to said user **110** for an extended period of time, as tape loses its adhesiveness over time. Further, tape may cause a restricted movement of air to said user **110**'s skin. For patients which have facial hair, tape may not adhere to said facial hair. Likewise, often a patient may have sensitive skin which reacts negatively to tape. FIG. 1B further illustrates a heart **130** and a one or more passages **132** within said heart **130**.

In one embodiment, said user **110** may need a catheter **134**. In one embodiment, said catheter **134** can comprise be used for diagnostic purposes. For example, it can detect heart failure or sepsis, monitor therapy, evaluate the effects of drugs and/or deliver drugs to the heart of a user. One advantage of said catheter **134** can be to direct, simultaneous measurement of pressures in the right atrium, right ventricle, pulmonary artery, and the filling pressure of the left atrium.

As is used in the prior art, taping said first catheter tube **114a** to said user **110** in order to hold said catheter **134** in place, can lead to dislodging of and infection at said catheter **134**. One advantage of said head mounted catheter holder assembly and method of use, as disclosed herein, is the avoidance of these and other maladies associated with the prior art.

In one embodiment, said catheter holder assembly **100** can protect said user **110** by isolating tugs and pulls on said catheter **134** when said one or more catheter tubes **114** is moved upstream from said user **110**. In one embodiment, said catheter holder assembly **100** can be elastic allowing said first catheter tube **114a** to move slightly from said head **118** but not dislodge said catheter **134** entirely. Said catheter holder assembly **100** and their methods of use, therefore, provide protection of said user **110** from harm, infection, and removal of said catheter **134** (or any catheter) while in use.

FIG. 2 illustrates a perspective overview view of a catheter holder assembly **100b**.

In one embodiment, said catheter holder assembly **100b** can comprise said chin strap **202**, said downstream **208** and said upstream **210**.

In one embodiment, said second head mount assembly **102b** can comprise said downstream **208**.

Said catheter holder assembly **100b** can comprise second head mount assembly **102b** which can comprise chin strap **202**, as illustrated.

In one embodiment, said chin strap **202** can hold said second head mount assembly **102b** snugly on said head **118** of said user **110**.

In one embodiment, said chin strap **202** can be fastened by a fastener. Said fastener can comprise at least one of a hook and eye, a hook-and-loop fasteners (such as Velcro®), a button and eye, a zipper and fly, and a magnetic attraction.

In one embodiment, said catheter tube **114a** can attach to said insertion point **206** at a first end and to an IV bag **212** at a second end. In one embodiment, said IV bag **212** is held by an IV stand **214**. As is known in the art, movement of said user **110** can cause said catheter tube **114a** to put stress on said insertion point **206**. One objective of said head mounted catheter holder assembly and method of use is to decrease such stress.

In one embodiment, said second head mounted catheter holder assembly **100b** can comprise a vertex strap **220**, as discussed below.

In one embodiment, said one or more catheter holders **106** can isolate tugs on said upstream **210** portion of said one or more catheter tubes **114** from said downstream **208** and thereby limit harm to said insertion point **206** of said user **110**.

FIG. 3 illustrates a perspective overview view of a one or more straps **302**.

In one embodiment, said one or more straps **302** can comprise said first strap **302a** and said second strap **302b**.

In one embodiment, said one or more fasteners **304** can comprise said first fastener **304a** and said second fastener **304b**.

In one embodiment, said gown **306** can comprise said gown **306**, said one or more shoulder fasteners **308** and said second shoulder fastener **308b**.

In one embodiment, said one or more shoulder fasteners **308** can comprise said first shoulder fastener **308a** and said second shoulder fastener **308b**.

In one embodiment, said catheter holder assembly **100b** can comprise said gown **306**.

In one embodiment, said second head mount assembly **102b** can comprise said one or more straps **302**, said second strap **302b** and said one or more fasteners **304**.

In one embodiment, said one or more straps **302** can attach to said gown **306** of said user **110**. Said one or more straps **302** can comprise one or more fasteners **304** and said gown **306** can comprise one or more shoulder fasteners **308**. Said one or more fasteners **304** of said one or more straps **302** can selectively mate with said one or more shoulder fasteners **308** of said gown **306**.

Said one or more fasteners **304** and said one or more shoulder fasteners **308** can comprise buttons, hook-and-loop fasteners, snaps, tie downs, or similar.

Removing pressure from under said chin **204** of said user **110** can remove friction and further infection and irritation.

FIG. 4A illustrates an elevated top side view of a head **118**.

FIG. 4B illustrates a perspective overview view of a catheter holder assembly **100b**.

In one embodiment, said two shoulders **404** can comprise said first shoulder **404a** and said second shoulder **404b**.

In one embodiment, said head **118** can comprise said front **420**, said back **422**, said first side **424**, said second side **426** and said vertex **428**.

In one embodiment, said gown **306** can comprise said two shoulders **404**.

In one embodiment, said second head mounted catheter holder assembly **100b** can wrap around said head **118** of said user **110**, wherein; said head **118** of said user **110** comprises a front **420**, a back **422**, a first side **424**, a second side **426**, and a vertex **428**.

In one embodiment, said one or more fasteners **304** are at least one of a hook-and-loop fasteners, a hook and eye, a button and eye, a zipper and fly, and a magnetic attraction.

As would be obvious to one in the art, this configuration can be rotated and/or flipped without departing from the intended purpose and scope of this disclosure.

FIG. 5A illustrates an elevated bottom side view of a catheter holder assembly **100a**.

FIG. 5B illustrates an elevated first side view of a catheter holder assembly **100a**.

In one embodiment, said head aperture **500** can comprise said head aperture **500** and said one or more aperture diameters **506**.

In one embodiment, said one or more aperture diameters **506** can comprise said first aperture diameter **506a** and said second aperture diameter **506b**.

In one embodiment, said one or more sides **508** can comprise said first side **508a** and said second side **508b**.

In one embodiment, said catheter holder assembly **100** can comprise said head aperture **500**, said second aperture diameter **506b**, said one or more sides **508** and said second side **508b**.

In one embodiment, said head **118** can comprise said rim **510**.

In one embodiment, said first head mount assembly **102a** can comprise a mesh portion **502**, a fitted woven strands **504**, and a one or more catheter holders.

In one embodiment, said mesh portion **502** can comprise a one of the openings between a one or more threads or cords of a net. In one embodiment, said mesh portion **502** can comprise a snood, which can comprise a type of fashionable head piece used to hold the hair of a user. As is shown in FIG. 1A, a snood can and often is used as a fashion accessory. Here, the use of the term snood, or a hair net, when discussing said mesh portion **502** of said first head mount assembly **102a** can be interpreted as a device used to attach to a user's head and hold a weight such as said first catheter tube **114a**. In one embodiment, said mesh portion **502** can comprise a woven netting or a one or more woven bands, as is known in the art. In one embodiment, said one or more bands can be elastic.

In one embodiment, said mesh portion **502** can comprise a solid fabric, but can also comprise of loosely knitted material (such as a yarn) or other net-like material (hereafter referred to as a netted material). In another embodiment, a small bag—netted, tatted, knitted, crocheted, or knotted—of fine thread, can enclose a bob of long hair on the back of the head or hold it close to the nape.

In one embodiment, said fitted woven strands **504** can be elastic allowing for a variable circumference and snug fit around said head **118** of said user **110**. For example, in one embodiment, said mesh portion **502** is illustrated with a first aperture diameter **506a** in FIG. 5A and with a second aperture diameter **506b** in FIG. 5B. In another embodiment, said fitted woven strands **504** can comprise a draw string

which allows for a variable circumference, as is known in the art. In one embodiment, said mesh portion **502** can be buttoned or fastened in a variety of manners as would be obvious to one in the art.

In one embodiment, said one or more catheter holders can attach to a side portions which can comprise a first side **508a** and a second side **508b** of said mesh portion **502** of said first head mount assembly **102a**. Said one or more catheter holders of said first head mount assembly **102a** can be substantially identical to those of said second head mount assembly **102b**.

FIG. **6** illustrates an elevated bottom side view of a catheter holder assembly **100b**.

In one embodiment, said one or more straps **302** can attach to rim **510** and extend out from said one or more sides **508**.

In one embodiment, said rim **510** can comprise an elastic material sufficient to hold said catheter holder assembly **100** on said head **118** of said user **110**, as is known in the art.

In one embodiment, said one or more fasteners **304** can attach to one another rather than said gown **306**, in such a case said one or more fasteners **304** can form said chin strap **202** without use of said gown **306**.

FIG. **7** illustrates an elevated first side view of a woven strands **702**.

In one embodiment, said mesh portion **502** can comprise said woven strands **702** and said woven strands **702**.

In one embodiment, said catheter holder assembly **100b** can comprise said mesh portion **502** comprising said woven strands **702**.

FIG. **8** illustrates a flow chart view of a method of use steps **800**.

In one embodiment, said method of use steps **800** can comprise said first method of use step **800a**, said second method of use step **800b**, said third method of use step **800c** and said third method of use step **800c**.

In one embodiment, said mesh portion **502** can comprise said method of use steps **800**.

In one embodiment, said method of use steps **800** can comprise a first method of use step **800a** (which can comprise attaching a head mount assembly to a one or more catheter holders), a second method of use step **800b** (which can comprise releaseably attaching said head mount assembly to a head of a user), and a third method of use step **800c** (which can comprise releaseably holding a one or more catheter tubes with said one or more catheter holders)

The following sentences are included for completeness of this disclosure with reference to the claims.

A catheter holder assembly **100** for selectively holding a portion of a one or more catheter tubes **114** to a head **118** of a user **110**. Comprising head mount assembly **102**, a one or more catheter holders **106**, said one or more catheter tubes **114**, a catheter **134**. Said one or more catheter holders **106** comprise a first catheter holder **106a**. Said one or more catheter holders **106** are attached to said head mount assembly **102**. head mount assembly **102** is configured to releaseably attach to said head **118** of said user **110**. Said one or more catheter holders **106** releaseably hold said one or more catheter tubes **114**. Said one or more catheter tubes **114** each comprise said catheter **134** at a first end being a downstream **208** of said one or more catheter holders **106** and an IV bag **212** at a second end being an upstream **210** of said one or more catheter holders **106**. Said catheter **134** is configured to attach to a portion of said user **110** at an insertion point **206**. Said catheter holder assembly **100** is configured to relieve stress between said catheter **134** and said user **110** by supporting one or more catheter tubes **114** between said

insertion point **206** and said IV bag **212**. Said one or more catheter holders **106** are positioned above said insertion point **206**. head mount assembly **102** comprises a mesh portion **502** and a rim **510**. Said mesh portion **502** wraps around a portion of said head **118**. Said mesh portion **502** attaches around a circumference of said rim **510**. head mount assembly **102** is configured to slide onto said head **118** by stretching said rim **510** around said head **118**, and pressing a portion of said mesh portion **502** into a vertex **428** of said head **118**. Said one or more catheter holders **106** attach to a portion of said head mount assembly **102**.

head mount assembly **102** comprising said mesh portion **502** and said rim **510**. Said mesh portion **502** is attached to a circumference of said rim **510**. Said rim **510** comprises a head aperture **500**. head mount assembly **102** is configured to selectively attach to said head **118** by stretching a portion of said rim **510** around said head **118**, sliding a portion of said head **118** through said head aperture **500**. Said rim **510** comprises a one or more aperture diameters **506**. Said rim **510** comprises and elastic material. Said one or more aperture diameters **506** vary depending on pressure applied to said rim **510**.

head mount assembly **102** comprising said mesh portion **502** and said rim **510**. Said mesh portion **502** comprising a non-irritant material configured to prevent friction injuries to said head **118** of said user **110**.

Said mesh portion **502** of head mount assembly **102** comprises a microfiber material configured to limit skin irritation by stretching and allowing airflow while in use.

Said mesh portion **502** of head mount assembly **102** comprises a silicon material configured to limit skin irritation.

head mount assembly **102** comprising said mesh portion **502** and said rim **510**. Said mesh portion **502** comprising an elastic netting configured to allow said head **118** to freely receive airflow under head mount assembly **102**.

head mount assembly **102** comprising said mesh portion **502** and said rim **510**. Said mesh portion **502** comprising a mesh material configured to limit skin irritation by stretching and allowing airflow while inside of head mount assembly **102**.

head mount assembly **102** comprising a one or more straps **302**. Said one or more straps **302** comprising a first strap **302a** and a second strap **302b**. head mount assembly **102** comprising a one or more sides **508** comprising a first side **508a** and a second side **508b**. Said first strap **302a** attached to said first side **508a**. Said second strap **302b** attached to said second side **508b**. Said catheter holder assembly **100** further comprising a gown **306** configured to be worn by said user **110**. Said gown **306** comprising a one or more shoulder fasteners **308** and a two shoulders **404**. Said one or more shoulder fasteners **308** are arranged on said two shoulders **404** of said gown **306**. Said one or more shoulder fasteners **308** selectively attach to a one or more fasteners **304**.

A chin strap **202**. Said chin strap **202** attached to said rim **510** at a one or more sides **508**. Said chin strap **202** configured to selectively hold head mount assembly **102** on said head **118** of said user **110**.

Said one or more catheter holders **106** comprise said first catheter holder **106a** and a second catheter holder **106b**. head mount assembly **102** comprises a one or more sides **508** comprising a first side **508a** and a second side **508b**. Said first catheter holder **106a** is attached to said first side **508a** and said second catheter holder **106b** is attached to said second side **508b**. A method of use steps **800** for a catheter holder assembly **100** comprising:

A first method of use step **800a** comprising attaching head mount assembly **102** to a one or more catheter holders **106**. A second method of use step **800b** comprising releaseably attaching head mount assembly **102** to a head **118** of a user **110**, and. A third method of use step **800c** comprising releaseably holding a one or more catheter tubes **114** with said one or more catheter holders **106**. Wherein. head mount assembly **102** comprising a mesh portion **502** and a rim **510**. Said mesh portion **502** is attached to a circumference of said rim **510**. Said rim **510** comprises a head aperture **500**. head mount assembly **102** is configured to selectively attach to said head **118** by stretching a portion of said rim **510** around said head **118**, sliding a portion of said head **118** through said head aperture **500**. Said rim **510** comprises a one or more aperture diameters **506**. Said rim **510** comprises and elastic material. Said one or more aperture diameters **506** vary depending on pressure applied to said rim **510**.

Various changes in the details of the illustrated operational methods are possible without departing from the scope of the following claims. Some embodiments may combine the activities described herein as being separate steps. Similarly, one or more of the described steps may be omitted, depending upon the specific operational environment the method is being implemented in. It is to be understood that the above description is intended to be illustrative, and not restrictive. For example, the above-described embodiments may be used in combination with each other. Many other embodiments will be apparent to those of skill in the art upon reviewing the above description. The scope of the invention should, therefore, be determined with reference to the appended claims, along with the full scope of equivalents to which such claims are entitled. In the appended claims, the terms “including” and “in which” are used as the plain-English equivalents of the respective terms “comprising” and “wherein.”

The invention claimed is:

1. A catheter holder assembly for selectively holding a portion of one or more catheter tubes to a head of a user, comprising:

- a head mount assembly, one or more catheter holders, said one or more catheter tubes, a catheter;
- said one or more catheter holders comprise a first catheter holder;
- said one or more catheter holders are attached to said head mount assembly;
- said head mount assembly is configured to releaseably attach to said head of said user;
- said one or more catheter holders releaseably hold said one or more catheter tubes;
- said one or more catheter tubes each comprise said catheter at a first end being a downstream of said one or more catheter holders and an IV bag at a second end being an upstream of said one or more catheter holders;
- said catheter is configured to attach to a portion of said user at an insertion point;
- said catheter holder assembly is configured to relieve stress between said catheter and said user by supporting said one or more catheter tubes between said insertion point and said IV bag;
- said one or more catheter holders are positioned above said insertion point;
- said head mount assembly comprises a mesh portion and a rim;
- said mesh portion configured to wrap around a first portion of said head;

said mesh portion attaches around a circumference of said rim;

said head mount assembly is configured to slide onto said head by

- stretching said rim around said head, and
- pressing a portion of said mesh portion into a vertex of said head;

said one or more catheter holders attach to a portion of said head mount assembly;

said one or more catheter holders comprise said first catheter holder and a second catheter holder;

said head mount assembly comprises one or more sides comprising a first side and a second side; and

said first catheter holder is attached to said first side and said second catheter holder is attached to said second side.

2. The catheter holder assembly from claim **1**, wherein:

- said rim comprises a head aperture;
- said head mount assembly is configured to selectively attach to said head by

 - stretching a portion of said rim around said head,
 - sliding a second portion of said head through said head aperture;

- said rim comprises one or more aperture diameters;
- said rim comprises an elastic material; and
- said one or more aperture diameters vary depending on pressure applied to said rim.

3. The catheter holder assembly from claim **1**, wherein:

- said mesh portion comprising a non-irritant material configured to prevent friction injuries to said head of said user.

4. The catheter holder assembly from claim **3**, wherein:

- said mesh portion of said head mount assembly comprises a microfiber material configured to limit skin irritation by stretching and allowing airflow while in use.

5. The catheter holder assembly from claim **3**, wherein:

- said mesh portion of said head mount assembly comprises a silicon material configured to limit skin irritation.

6. The catheter holder assembly from claim **1**, wherein:

- said mesh portion comprising an elastic netting configured to allow said head to freely receive airflow under said head mount assembly.

7. The catheter holder assembly from claim **1**, wherein:

- said mesh portion comprising a mesh material configured to limit skin irritation by stretching and allowing airflow while inside of said head mount assembly.

8. The catheter holder assembly from claim **1**, wherein:

- said head mount assembly comprising one or more straps;
- said one or more straps comprising a first strap and a second strap;
- said head mount assembly comprising one or more sides comprising a first side and a second side;
- said first strap attached to said first side;
- said second strap attached to said second side;
- said catheter holder assembly further comprising a gown configured to be worn by said user;
- said gown comprising one or more shoulder fasteners and two shoulders;
- said one or more shoulder fasteners are arranged on said two shoulders of said gown;
- said one or more straps comprise one or more fasteners; and
- said one or more shoulder fasteners of said gown are configured to selectively attach to said one or more fasteners of said one or more straps.

9. The catheter holder assembly from claim **1**, further comprising:

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a chin strap;
 said chin strap attached to said rim at one or more sides;
 and
 said chin strap configured to selectively hold said head
 mount assembly on said head of said user. 5

10. A method of use steps for a catheter holder assembly
 comprising:
 selectively holding a portion of one or more catheter tubes
 to a head of a user with a catheter holder assembly by:
 releaseably attaching a head mount assembly to said head 10
 of said user, and;
 releaseably holding said one or more catheter tubes with
 said one or more catheter holders;
 wherein said catheter holder assembly comprises said 15
 head mount assembly, said one or more catheter hold-
 ers, said one or more catheter tubes, a catheter;
 said one or more catheter holders are attached to said head
 mount assembly;
 said one or more catheter tubes each comprise 20
 said catheter at a first end being a downstream of said one
 or more catheter holders and an IV bag at a second end
 being an upstream of said one or more catheter holders;
 attaching said catheter to a portion of said user at an
 insertion point;

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said catheter holder assembly is configured to relieve
 stress between said catheter and said user by
 supporting said one or more catheter tubes between said
 insertion point and said IV bag;
 positioning said one or more catheter holders above said
 insertion point;
 said head mount assembly comprising a mesh portion and
 a rim;
 wrapping said mesh portion around a first portion of said
 head;
 attaching said mesh portion to a circumference of said
 rim;
 sliding said head mount assembly onto said head by
 stretching said rim around said head, and
 pressing a portion of said mesh portion into a vertex of
 said head;
 said one or more catheter holders comprise a first catheter
 holder and a second catheter holder; said head mount
 assembly comprises one or more sides comprising a
 first side and a second side; and
 said first catheter holder is attached to said first side and
 said second catheter holder is attached to said second
 side.

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