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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/865,307	07/14/2022	Richard Quick	111552-8023.US04	3960
25096	7590	09/15/2022		
PERKINS COIE LLP - SEA General PATENT-SEA P.O. BOX 1247 SEATTLE, WA 98111-1247			EXAMINER NGUYEN, TUAN VAN	
			ART UNIT	PAPER NUMBER
			3771	
			NOTIFICATION DATE	DELIVERY MODE
			09/15/2022	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentprocurement@perkinscoie.com

Office Action Summary

Application No.

17/865,307

Applicant(s)

Quick, Richard

Examiner

TUAN V NGUYEN

Art Unit

3771

AIA (FITF) Status

Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 08/22/22.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a) ☐ This action is **FINAL**.

2b) ☒ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 1-10 is/are pending in the application.

5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 1-6 and 9-10 is/are rejected.

8) ☒ Claim(s) 7-8 is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☒ The drawing(s) filed on 07/14/22 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

3) ☐ Interview Summary (PTO-413)

Paper No(s)/Mail Date ____.

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)

4) ☐ Other: ____.

Paper No(s)/Mail Date ____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Priority

1. This application is a continuation of U.S. Patent Application No. 17/498,642, filed on October 11, 2021, which is a continuation of U.S. Patent Application No. 16/258,344, filed on January 25, 2019, which is now issued as U.S. Patent No. 11,154,314, which claims the benefit of U.S. Provisional Patent Application No. 62/622,691, filed on January 26, 2018.

Claim Rejections - 35 USC § 112

2. The following is a quotation of 35 U.S.C. 112(b):
(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 10, which is dependent on claim 9, which is in turn dependent on claim 1, is rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor (or for applications subject to pre-AIA 35 U.S.C. 112, the applicant), regards as the invention. Claim 10 recites the limitation "*the second*

end portion" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

3. Claim(s) 1-3, 6 and 9 is/are rejected under 35 U.S.C. 102(a)(1) as being anticipated Grooters (US 5,197,485).

4. Referring to claim 1, Grooters discloses an aspiration system (Figs. 1-2), comprising:

a vacuum source (claim 1, col. 5, ln 45);

connection tubing 30 (Figs. 1-2) fluidically coupled to the vacuum source (claim 1);

a filter chamber 14 and 24 coupled to the connection tubing 30 at a location apart from the vacuum source, and the filter chamber comprising a housing and a filter 26

within the housing (col. 4, ln 19-22: "a removable filter trap 26 with a porosity sufficient to permit blood to flow freely while straining any particulate debris.");

a catheter 12 fluidically coupled to the vacuum source via the filter chamber along a flow path (Fig. 2 shows a flow path extend from the tip of the cannula 12 through the handle 14 and tubing 30); and

a flow controller (check valve 16 as shown in Fig. 2. Col. 3, ln 58-66: *"The valve outlet includes resilient lips 16c tapering together to a normally closed state to prevent backflow of fluid to the cannula 12. This check valve helps to insure against flow of air into the cannula, which could result in the generation of an air embolism, with possibly disastrous consequences."*

In alternative valve 18 as shown in Fig. 2) fluidically coupling the filter chamber to the catheter, wherein the flow controller is along the flow path between the filter chamber (14 and 24) and the catheter 12 such that flow from the catheter to the filter chamber is controlled proximate to the catheter.

5. Referring to claim 2, Grooters discloses the aspiration system of claim 1 wherein:

the housing (14 and 24) has a first end portion, a second end portion, a port (at lead line 14 as shown in Fig. 2) at the first end portion configured to be fluidically coupled to the catheter, and a fluid connector 24d (Fig. 2) at the second end portion configured to be coupled to the connection tubing 30; and

the filter 26 is in the housing along a flow path between the port and the fluid connector.

6. Referring to claim 3, Grooters discloses the aspiration system of claim 1 wherein the flow controller comprises a flow control unit between the filter chamber and the catheter (Fig. 2 shows check valve 16 is located between filter chamber 24 and catheter 12. Fig. 2 also shows valve 18 is located between filter chamber 24 and catheter 12).

7. Referring to claim 6, Grooters discloses the aspiration system of claim 1 wherein: the housing (14 and 24 as shown in Fig. 2) has a first end portion (at lead line 14 as shown in Fig. 2), a second end portion (at lead line 24d as shown in Fig. 2), a port at the first end portion (at lead line 14 as shown in Fig. 2) configured to be fluidically coupled to the catheter 12, and a fluid connector 24d at the second end portion configured to be coupled to the connection tubing 30;

the filter 26 is in the housing along a flow path between the port at the first end portion (at lead line 14 as shown in Fig. 2) and the fluid connector 24d at the second end portion; and

the system further comprises a check valve 16 in the housing along the flow path, the check valve being configured to allow flow in a direction from the port toward the fluid connector but prevent flow in a direction from the fluid connector to the port (Col. 3, ln 58-66: *"The valve outlet includes resilient lips 16c tapering together to a normally closed state to prevent backflow of fluid to the cannula 12. This check valve helps to insure against flow of air into the cannula, which could result in the generation of an air embolism, with possibly disastrous consequences."*)

8. Referring to claim 9, Grooters discloses the aspiration system of claim 1, further comprising a check valve 16 (Fig. 2).

9. Claim(s) 1 and 3-4 is/are rejected under 35 U.S.C. 102(a)(1) as being anticipated Garrison (US 20150173782).

10. Referring to claim 1, Garrison discloses an aspiration system (Fig. 34), comprising:

a vacuum source 3430 (Fig. 34, para [0132]);

connection tubing fluidically coupled to the vacuum source (Fig. 34 shows a connection tubing is connecting valve 3419 to aspiration source 3430);

a filter chamber 3418 coupled to the connection tubing at a location apart from the vacuum source 3430, and the filter chamber comprising a housing and a filter within the housing (para [0131]: "A filter 3418 and/or a check valve 3419 may be coupled with flow line 2025." Filter 3418 inherently has a housing for storing filter net/mesh);

a catheter 2010 and 2025 fluidically coupled to the vacuum source via the filter chamber 3418 along a flow path (Fig. 2 shows a flow path extend from the distal end of the catheter 2010 through the filter 3418 and tubing); and

a flow controller 3325 (Fig. 34, para [0131]: "A valve 3325 controls which device is connected to the aspiration source 3430. The valve may enable one device, the other device, both devices, or neither device to be connected to the aspiration source at any given time. The valve may be a 3-way or 4-way stopcock. Alternately, the valve may be a flow controller with a simple actuation which selects the configuration as described above.") fluidically coupling the filter chamber to the catheter,

wherein the flow controller is along the flow path between the filter chamber 3418 and the catheter 2010 and 2025 such that flow from the catheter to the filter chamber is controlled proximate to the catheter.

11. Referring to claims 3-4, Garrison discloses the aspiration system of claim 1 wherein the flow controller comprises a flow control unit between the filter chamber and the catheter and wherein the flow control unit comprises a stopcock valve (para [0131]: “A valve 3325 controls which device is connected to the aspiration source 3430. The valve may enable one device, the other device, both devices, or neither device to be connected to the aspiration source at any given time. The valve may be a 3-way or 4-way stopcock. Alternately, the valve may be a flow controller with a simple actuation which selects the configuration as described above.”).

Claim Rejections - 35 USC § 103

12. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

13. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

14. The factual inquiries for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

15. Claim(s) 5 is/are rejected under 35 U.S.C. 103 as being unpatentable over Garrison in view of Quick (US 2015/0352325, which is cited in the IDS filed on 09/06/22) and further in view of Raju et al. (US 8,057,497).

16. Referring to claim 5, Garrison discloses the aspiration system of claim 3 wherein the flow control unit is a stopcock valve instead of a clamp. However, in the same field of endeavor, which is an aspiration system for treating a blockage in a blood vessel, Quick discloses Y-connector 308 (Fig. 4A) can be used to connect two side branches to a main tubing 302b. Furthermore, in the same field of endeavor, which is an aspiration system for treating a blockage in a blood vessel, Raju discloses that stopcock can be replaced with clamp (Fig. 3A, col. 4, ln 15-27).

17. Referring again to claim 5, it would have been obvious to one of ordinary skill in the art, before the effective filing date of the application, to have substitute 3-way stopcock as suggested by Garrison with a y-connector and two clamps for controlling

the fluid flow through the two branches. This simple substitution does not require a leap of inventiveness since it has been held that simple substitution of one known element for another to obtain predictable results (KSR Int'l Co. v. Teleflex Inc., 550 U.S. 398, 415-421, 82 USPQ2d 1385, 1395-97 (2007)).

Allowable Subject Matter

1. Claims 7-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
2. Claim 10 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUAN V NGUYEN whose telephone number is (571)272-5962. The examiner can normally be reached Monday - Friday 8:30 AM - 5:30 PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jackie Ho can be reached on 571-272-4696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TUAN V NGUYEN/
Primary Examiner, Art Unit 3771

<i>Notice of References Cited</i>	Application/Control No. 17/865,307		Applicant(s)/Patent Under Reexamination Quick, Richard	
	Examiner TUAN V NGUYEN		Art Unit 3771	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
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*	C	US-20150173782-A1	06-2015	Garrison; Michi E.	A61B17/3417	606/127
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	E					
	F					
	G					
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	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Search Notes</i> 	Application/Control No. 17/865,307	Applicant(s)/Patent Under Reexamination Quick, Richard
	Examiner TUAN V NGUYEN	Art Unit 3771

CPC - Searched*		
Symbol	Date	Examiner
A61B17/22,221,22031	09/09/2022	TN
A61B2017/22042,22079,22094	09/09/2022	TN
A61M25/0082,0122,01	09/09/2022	TN
A611M2210/12	09/09/2022	TN
A61M39/06,062,0613	09/09/2022	TN
A61M1/008,0281	09/09/2022	TN
A61M2039/027	09/09/2022	TN

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Group/subgroups combined with text (see search history printout)	09/09/2022	TN

/TUAN V NGUYEN/ Primary Examiner, Art Unit 3771	
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<i>Search Notes</i> 	Application/Control No. 17/865,307	Applicant(s)/Patent Under Reexamination Quick, Richard
	Examiner TUAN V NGUYEN	Art Unit 3771

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/TUAN V NGUYEN/ Primary Examiner, Art Unit 3771	
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Bibliographic Data

Application No: 17/865,307

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☐ No ☐ Met After Allowance

Verified and Acknowledged: /TUAN V NGUYEN/

Examiner's Signature

Initials

Title:

SINGLE INSERTION DELIVERY SYSTEM FOR TREATING EMBOLISM AND ASSOCIATED SYSTEMS AND METHODS

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/14/2022	606	3771	111552-8023.US04
RULE			

APPLICANTS

Inari Medical, Inc., Irvine, CA,

INVENTORS

Richard Quick, Mission Viejo, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 17498642 10/11/2021

17498642 is a CON of 16258344 01/25/2019 PAT 11154314

16258344 has PRO of 62622691 01/26/2018

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

07/21/2022

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Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Filed

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	17/865,307 - Conf# 3960
	Filing Date	July 14, 2022
	First Named Inventor	Richard Quick
	Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	111552-8023.US04

U.S. PATENTS					
Examiner Initial*	Cite No	Patent Number	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	17/865,307 - Conf# 3960
	Filing Date	July 14, 2022
	First Named Inventor	Richard Quick
	Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	111552-8023.US04

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Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2012. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	17/865,307 - Conf# 3960
	Filing Date	July 14, 2022
	First Named Inventor	Richard Quick
	Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	111552-8023.US04

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EXAMINER SIGNATURE

Examiner Signature	/TUAN V NGUYEN/	Date Considered	09/08/2022
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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e) (1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e) (2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98 and the Examiner is respectfully requested to consider the listed references. This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information that may be material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, Applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

COPIES OF REFERENCES

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 C.F.R. § 1.98(a)(2).

Those documents which are marked with a double asterisk (**) next to the Cite No. in the attached form PTO/SB/08 are not supplied because they were previously cited by or submitted to the Office in prior application number **16/258,344** and filed on **January 25, 2019** and relied upon in this application for an earlier filing date under 35 U.S.C. § 120.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

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	Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	111552-8023.US04

Signature	/Matthew S. Williams/	Date (YYYY-MM-DD)	2022-09-06
Name/Print	Matthew S. Williams	Registration Number	77,516

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	1	"20190231373"	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/05 09:38 PM
L2	13	((("Inari") near3 ("Medical") near3 ("Inc"))).AS.AANM.	(USPAT)	OR	ON	ON	2020/10/06 04:04 PM
L3	253	((("Quick") near3 ("Richard"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/10/06 04:05 PM
L5	5718	A61B2017/22042.2209 4,22034.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 06:42 PM
L6	4652	A61M25/0082.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 06:43 PM
L7	2813	A61B2017/22079.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 06:43 PM
L8	1954	A61M2210/12.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 06:44 PM
L10	5718	A61B2017/22042.2209 4,22034.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:30 PM
L11	22	L10 and (adapt\$3 connector) same seal same lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:30 PM
L12	4652	A61M25/0082.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:30 PM
L13	8	L12 and (adapt\$3 connector) same seal same lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:30 PM
L14	2813	A61B2017/22079.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:30 PM
L15	48	L14 and (adapt\$3 connector) same seal same lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:30 PM
L16	1954	A61M2210/12.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2020/10/06 08:30 PM

			JPO; DERWENT; IBM_TDB)				
L17	18	L16 and (adapt\$3 connector) same seal same lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:30 PM
L18	36	L16 and (adapt\$3 connector) same seal and (adapt\$3 connector) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:31 PM
L19	3089	A61B17/22031.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:31 PM
L20	24	L19 and (adapt\$3 connector) same seal and (adapt\$3 connector) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:31 PM
L21	53	L10 and (adapt\$3 connector) same seal and (adapt\$3 connector) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:31 PM
L22	33	L12 and (adapt\$3 connector) same seal and (adapt\$3 connector) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:31 PM
L23	84	L14 and (adapt\$3 connector) same seal and (adapt\$3 connector) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:31 PM
L24	36	L16 and (adapt\$3 connector) same seal and (adapt\$3 connector) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:31 PM
L25	12081	A61B17/221.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:40 PM
L26	39	L25 and clean\$4 same repeat\$4	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:40 PM

L27	24	L25 and clean\$4 same reinsert\$4	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:44 PM
L28	44	L25 and (adapt\$3 connector) same seal and (adapt\$3 connector) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 08:46 PM
L29	36	L16 and (adapt\$3 connector) same seal\$4 and (adapt\$3 connector) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 09:00 PM
L30	55	L10 and (adapt\$3 connector) same seal\$4 and (adapt\$3 connector) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 09:00 PM
L31	187	L10 and (adapt\$3 connector attachment coupl\$4) same seal\$4 and (adapt\$3 connector attachment coupl\$4) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 09:01 PM
L32	61	L12 and (adapt\$3 connector attachment coupl\$4) same seal\$4 and (adapt\$3 connector attachment coupl\$4) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 09:01 PM
L33	163	L14 and (adapt\$3 connector attachment coupl\$4) same seal\$4 and (adapt\$3 connector attachment coupl\$4) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 09:01 PM
L34	137	L16 and (adapt\$3 connector attachment coupl\$4) same seal\$4 and (adapt\$3 connector attachment coupl\$4) same lock\$4 and lock\$4 same (catheter sheath)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 09:01 PM
L35	113	L19 and (adapt\$3 connector attachment coupl\$4) same seal\$4 and (adapt\$3 connector attachment coupl\$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/06 09:02 PM

		same lock\$4 and lock\$4 same (catheter sheath)					
L36	226	604/159.ccls.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/07 09:16 AM
L37	7358	A61M25/01.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/07 09:21 AM
L38	1983	A61M25/01.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/07 09:21 AM
L39	7358	A61M25/01.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/07 03:21 PM
L40	1983	A61M25/01.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/07 03:22 PM
L41	5375	L39 not L40	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/07 03:22 PM
L42	47	L41 and (adapt\$3 connector attachment coupl\$4) same seal\$4 and seal\$4 same (sheath catheter)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/07 03:25 PM
L43	126	A61M25/0122.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/07 09:08 PM
L45	3089	A61B17/22031.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/07 09:11 PM
L47	1745	A61B2017/22035.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/07 09:12 PM
L48	1	("20150335416").PN	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/08 09:58 AM
L49	19178	A61F2/95.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/09 09:39 AM
L50	12084	A61B17/221.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/09 10:09 AM
L51	7	L50 and clean\$4 same reinsert\$4 and clean\$4 same (new prestine)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/09 10:09 AM
L52	1	("20090163896").PN	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/09 11:30 AM

L53	338	A61B17/22031.cpc. and clamp	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/09 04:53 PM
L54	135	A61B17/22031.cpc. and clamp same tub\$4	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/09 04:53 PM
L55	21	606/159.ccls. and (releas\$4 open\$3 unlock\$4) with seal with catheter	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/09 05:36 PM
L56	537	(releas\$4 open\$3 unlock\$4) with seal with catheter and 606/\$.ccls.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/10 10:35 AM
L57	1	("5911710").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/10/10 10:46 AM
L58	7	604/249.ccls. and hemostasis with seal	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/10 10:59 AM
L59	875	604/249.ccls.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/10 11:02 AM
L60	2426	604/246.ccls.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/10 11:02 AM
L61	2881	A61M2039/062.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/10/10 12:38 PM
L62	752	A61M2039/062.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/10/10 12:38 PM
L63	104	("4000739" "4029099" "4062363" "4205675" "4327723" "4327735" "4362150" "4424833" "4430081" "4483340" "4551137" "4564014" "4582181" "4613329" "4634433" "4638805" "4657536" "4684363" "4692200" "4696304" "4714461" "4715378" "4726374" "4748982" "4759751" "4767409" "4793351" "4811737" "4821722" "4844092" "4846174" "4917094" "4930341" "4983167" "5114408" "5149326").PN. OR	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/10/10 01:42 PM

L68	8	("5334153").URPN. (("10524811") or ("10912577") or ("20110152823") or ("20210113224") or ("20110160763") or ("20050283165") or ("20110125181") or ("20020095171")).PN.	(US-PGPUB; USPAT)	OR	ON	ON	2021/06/18 08:07 AM
L71	2	wo-2020036809-\$.did.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/06/18 02:54 PM
L72	1	("20200046368").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2021/06/18 02:56 PM
L73	19	((("Inari") near3 ("Medical") near3 ("Inc"))).AS,AANM.	(USPAT)	OR	ON	ON	2022/09/01 02:14 PM
L74	277	((("Quick") near3 ("Richard"))).INV	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/01 02:16 PM
L77	17	("5102417" "5603698" "5662700" "5876436" "6719790" "7462191" "7544198" "8414632" "20030144670" "20030199849" "20040106900" "20040236403" "20060036263" "20060264905" "20070270780" "20080015625" "20080167522").pn. OR ("9408694").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/01 04:38 PM
L78	1	("8876848").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/01 04:45 PM
L79	62	("4364391" "4884579" "5057083" "5058580" "5095915" "5465733" "5474535" "5773020" "5865826" "5885217" "5910134" "5980493" "6637435" "6695850" "6814718" "6926728" "7198631" "7306574" "7632277" "7695489" "7713193" "7776062" "8202289" "8396532" "8485969" "20020026207" "20020133128" "20040015138" "20040138589"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/01 04:45 PM

		"20040243212" "20050131393" "20050216007" "20050234437" "20060124134" "20060208028" "20070060927" "20070156219" "20080009797" "20080009823" "20080125791" "20080146967" "20090024089" "20090209912" "20090216238" "20090306657" "20090312784" "20090318896" "20100010334" "20100016984" "20100036226" "20100262158" "20100298832" "20110087234" "20110166579" "20110245800" "20110275935" "20110319898" "20120116323" "20120123464" "20120316565" "20130255694").pn. OR ("8876848").urpn. AND (PGPB USPT USOC).dbnm.					
L82	3748	A61M1/0281.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 09:13 AM
L83	1730	A61M1/0281.cpc. AND filter	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/09/06 09:13 AM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L84	676	A61M1/0281.cpc. AND filter AND valve	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 09:13 AM
L85	32	A61M1/008.cpc. AND filter AND valve	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 09:15 AM
L86	115	A61B17/22031,22,221.cpc. AND (reservoir container collect\$4) SAME filter SAME valve	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 10:23 AM
L87	12	A61B17/220758,320725.cpc. AND (reservoir container collect\$4) SAME filter SAME valve	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 10:24 AM
L88	122	A61B2017/22034,22042,22079,22094.cpc. AND (reservoir container collect\$4) WITH (debris thromb\$5 embol\$5) AND filter	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 10:34 AM

		SAME valve					
L89	188	("4164223" "4315506" "4458877" "4662871" "4696669" "4767403" "4902276" "4911399" "5254085" "5318546" "5496267" "5704584" "6193732" "6226843" "6261283" "6423028" "6471683" "6689109" "6887220" "6960189" "7004931" "7033336" "7178699" "7472882" "7530976" "7641170" "7713276" "7717853" "7918822" "7931659" "7976515" "7998168" "8206374" "8287654" "8333796" "8366726" "8366735" "8435225" "8460312" "8465507" "8518017" "8568370" "8617106" "8636754" "8647294" "8690907" "8715314" "8721595" "8770542" "8814778" "8852218" "8911487" "8932321" "9017349" "9119656" "9186151" "9248228" "9402757" "9402985" "9526864" "9526865" "9554805" "9572933" "9615832" "9615951" "9623230" "9655633" "9775621" "9820761" "9883863" "9901351" "9901352" "9943321" "9980841" "10166024" "10299947" "20030023263" "20030229368" "20040102716" "20040267305" "20050149068" "20050182432" "20050256447" "20050273122" "20060025794" "20060058837" "20060264995" "20070060888" "20070100276" "20070129652" "20070239261" "20080015478" "20080154184" "20080163731"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/06 10:38 AM

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		"20170239447"					
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		"20170296195" "20170333170" "20170340797" "20170354777" "20170360450" "20170367857" "20180014840" "20180042623" "20180064578" "20180132857" "20180154063" "20180193042" "20180197633" "20180199944" "20180221029" "20180228502" "20180242989" "20180263642" "20180263646" "20180271686" "20180317922" "20180353194" "20190142452" "20190175184" "20190216476" "20190239910").pn. OR ("10531883").urpn. AND (PGPB USPT USOC).dbnm.					
L90	354	A61B2017/\$6.cpc. AND (reservoir container collect\$4) WITH (debris thromb\$5 embol\$5) AND filter SAME valve	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 12:53 PM
L91	67	("3224434" "3342175" "3526219" "3727602" "3785380" "3889657" "4243048" "4249541" "4393879" "4655226" "4680029" "4794928" "4815477" "4838855" "4857045" "5011490" "5030201" "5073168" "5087265").pn. OR ("5197485").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/06 01:34 PM
L92	42	("3623607" "3785380" "3863624" "3889657" "3890712" "4068664" "4400168" "4417874" "4468217" "4701164" "4813926" "4878900" "4886492" "5013300" "5078605" "5098416" "5123840" "5197485" "5244458" "D365146"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/06 01:41 PM

		"5520668" "5597385" "5630939" "5741134" "5766134" "5779649" "5807353" "6083175").pn. OR ("6908455").urpn. AND (PGPB USPT USOC).dbnm.					
L93	7822	A61B10/04.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 01:49 PM
L94	3	A61B10/04.cpc. AND (debris thromb\$5 embol\$5) SAME filter SAME valve	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 01:49 PM
L95	3	A61B10/04.cpc. AND (debris thromb\$5 embol\$5) SAME filter AND filter SAME valve	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 01:50 PM
L96	1	A61B10/04.cpc. AND (debris thromb\$5 embol\$5) SAME filter AND check near3 valve	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/06 01:50 PM
L97	7	("5827229" "8057497" "20050137498" "20060129091" "20090036871" "20130317529" "20140081075").pn. OR ("10456152").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/06 02:09 PM
L98	43	606/159.ccls. AND (debris thromb\$5 embol\$5) SAME filter AND filter SAME valve	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/06 02:12 PM
L99	4	("20150352325" "20150173782" "20130035628" "5197485").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/06 04:11 PM
L100	21	606/159.ccls. AND (debris thromb\$5 embol\$5) SAME filter AND filter SAME (housing chamber) AND (housing chamber) SAME valve	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/06 04:39 PM
L101	22	606/159.ccls. AND (debris thromb\$5 embol\$5) SAME filter AND filter SAME (housing chamber container) AND (housing chamber	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/06 04:52 PM

		container cartridge magazine) SAME valve					
L102	1970	A61B17/\$6.cpc. AND check near3 valve AND catheter	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/07 01:03 PM
L103	155	A61B17/\$6.cpc. AND check near3 valve AND catheter AND valve SAME connector SAME cap	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/07 01:04 PM
L104	380	A61B17/\$6.cpc. AND check near3 valve AND catheter AND valve SAME cap	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/07 01:14 PM
L105	484	A61M2039/027.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/07 01:23 PM
L106	564	A61B17/\$6.cpc. AND one near3 way near4 valve AND catheter AND valve SAME cap	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/07 01:41 PM
L107	448	A61M39/0613.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/07 01:50 PM
L108	27	("4946133" "5125915" "5167637" "5205831" "5205834" "5259842" "5478331" "5507732" "5556387" "5810869" "5895376" "5957901" "6024729" "6197016" "6287280" "6299132" "6344031" "6609696" "7226433" "20030066978" "20030094429" "20040172008" "20060229564" "20070073242" "20080255651" "20080289181").pn. OR ("8951229").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/07 02:11 PM
L109	1	("5,349,984").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/07 02:13 PM
L110	111	("2960998" "3025874" "4665943" "4681132" "4805664" "4953589" "5098405").pn. OR ("5349984").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/07 02:14 PM
L111	67	("3224434" "3342175" "3526219" "3727602" "3785380" "3889657"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/08 10:34 AM

		"4243048" "4249541" "4393879" "4655226" "4680029" "4794928" "4815477" "4838855" "4857045" "5011490" "5030201" "5073168" "5087265").pn. OR ("5197485").urpn. AND (PGPB USPT USOC).dbnm.					
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PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.