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Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: HEMOSTASIS DEVICES AND METHODS OF USE

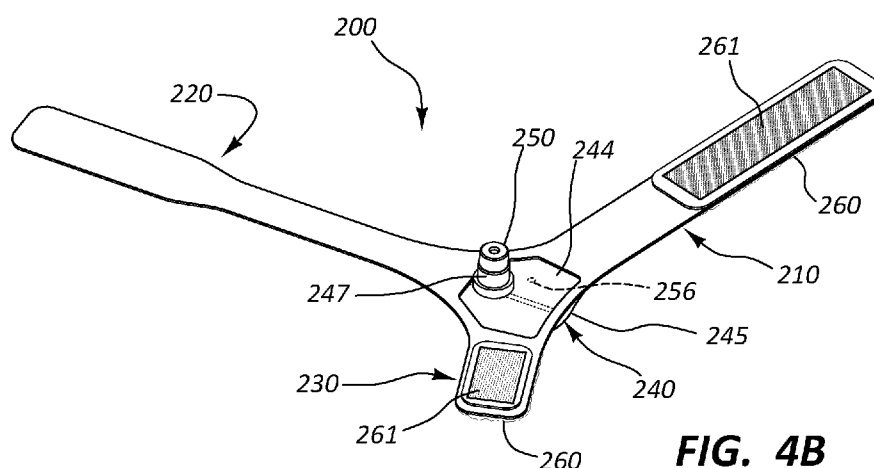


FIG. 4B

(57) Abstract: A hemostasis device configured to apply a compressive force to a puncture site of a patient's vessel, such as an artery of the hand, wrist, or foot, is disclosed. The hemostasis device may comprise a plurality of bands used to position and maintain a compression member over the puncture site. The hemostasis device may also comprise an inflation port in fluid communication with an inflatable bladder.



(88) Date of publication of the international search report:
13 June 2019 (13.06.2019)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/058992**A. CLASSIFICATION OF SUBJECT MATTER****A61M 39/02(2006.01)i, A61M 39/06(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61M 39/02; A61B 17/00; A61B 17/132; A61B 17/135; A61B 50/30; A61F 5/01; A61F 5/37; A61M 39/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: hemostasis device, compression member, hand band, thumb band, securement band, inflation member**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2016-0183951 A1 (PANCHOLY, S. B.) 30 June 2016 See claims 1-15; paragraphs [0016]-[0037]; figures 2-6.	1-7, 25-27, 43-52
Y	US 2006-0190026 A1 (SANDERS, L.) 24 August 2006 See claims 1-24; paragraphs [0011]-[0035]; figures 1-4.	1-7, 25-27, 43-52
A	US 2009-0240182 A1 (WEBER, J. J. et al.) 24 September 2009 See the whole document.	1-7, 25-27, 43-52
A	US 2017-0273693 A1 (TZ MEDICAL, INC.) 28 September 2017 See the whole document.	1-7, 25-27, 43-52
A	US 6647986 B1 (KOROTKO, JOSEPH R. et al.) 18 November 2003 See the whole document.	1-7, 25-27, 43-52



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

13 May 2019 (13.05.2019)

Date of mailing of the international search report

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International Application Division

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/058992

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 18-24,36-42
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 18-24,36-42 pertain to methods for treatment of the human body and thus relate to a subject-matter which this International Searching Authority is not required, under PCT Article 17(2)(a)(i) and PCT Rule 39.1(iv), to search.
2. ☒ Claims Nos.: 14,24,31-35
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims 14,24,31-35 directly or indirectly refer to one of the unsearchable claims which does not comply with PCT Rule 6.4(a).
3. ☒ Claims Nos.: 8-13,15-17,23,28-30,41,42
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of any additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2018/058992

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