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- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,

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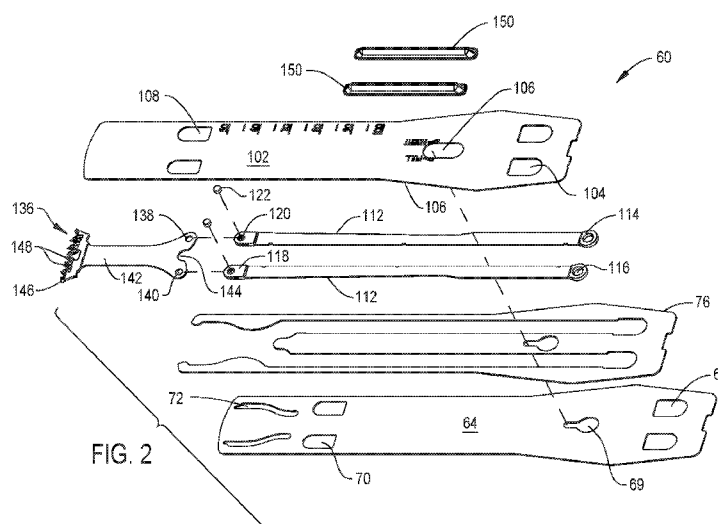
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- with international search report (Art. 21(3))
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- (88) **Date of publication of the international search report:**
9 February 2017

(54) **Title:** SURGICAL SAGITTAL BLADE CARTRIDGE WITH A REINFORCED GUIDE BAR



(57) **Abstract:** A surgical sagittal saw cartridge (60) that includes a guide bar (62) formed from an inner plate (76) and opposed outer plates (64, 102), the inner plate having a head (95). The cartridge has a blade (136) that is disposed against the head of the inner plate. The inner plate is formed to have an inner tine (86) and two opposed outer tines (80, 99). The inner tine is formed to define the head against which the blade is disposed. The outer tines extend forward of the inner tine so as to define a space between the outer tines in which the blade is seated. Reciprocation of drive links (112) disposed between the inner and outer tines to connect the blade to a saw drive element (50) results in pivoting of the blade around the head.

INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B17/14 B27B19/00
ADD.

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)

A61B B23D B27B

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

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

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2006/009796 A1 (CARUSILLO STEVEN [US] ET AL) 12 January 2006 (2006-01-12) paragraphs [0071] - [0074]; figures 7-9 -----	1-12
A	US 2014/194882 A1 (WALEN JAMES G [US] ET AL) 10 July 2014 (2014-07-10) paragraphs [0190] - [0208]; figures 43,65,69,77 -----	1
A	US 2014/163558 A1 (COSGROVE LIAM [IE] ET AL) 12 June 2014 (2014-06-12) cited in the application paragraphs [0028] - [0041]; figures 3-5 -----	1
A	DE 10 2008 062880 A1 (AESCULAP AG [DE]) 17 June 2010 (2010-06-17) paragraphs [0093] - [0095] ----- -/--	1



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

24 October 2016

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10/01/2017

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2007/083209 A1 (SCHENBERGER JON C [US] ET AL) 12 April 2007 (2007-04-12) paragraph [0069]; figures 12,13 -----	1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2016/031407

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.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
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:
3. ☐ Claims Nos.:
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:

see additional sheet

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 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.:

1-12

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/US2016/031407

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2016/031407

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

Surgical sagittal saw blade cartridge with outer plates and inner plate with tines

2. claims: 13, 14

Surgical sagittal saw blade cartridge with toothed blade pivot mechanism
