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(71) Applicant: **THE UNIVERSITY OF TOLEDO** [US/US];
2801 W. Bancroft Avenue, Toledo, OH 43606 (US).

(72) Inventors: **GOEL, Vijay, K.**; 2801 W. Bancroft Avenue,
Toledo, OH 43606 (US). **AGARWAL, Anand, K.**; 2801
W. Bancroft Avenue, Toledo, OH 43606 (US). **DICK,
David**; 2801 W. Bancroft Avenue, Toledo, OH 43606
(US).

(74) Agent: **MACMILLAN, Richard, S.**; MacMillan,
Sobanski & Todd, LLC, One Maritime Plaza, 5th Floor,
720 Water Street, Toledo, OH 43604 (US).

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(54) Title: BIOACTIVE FUSION DEVICE

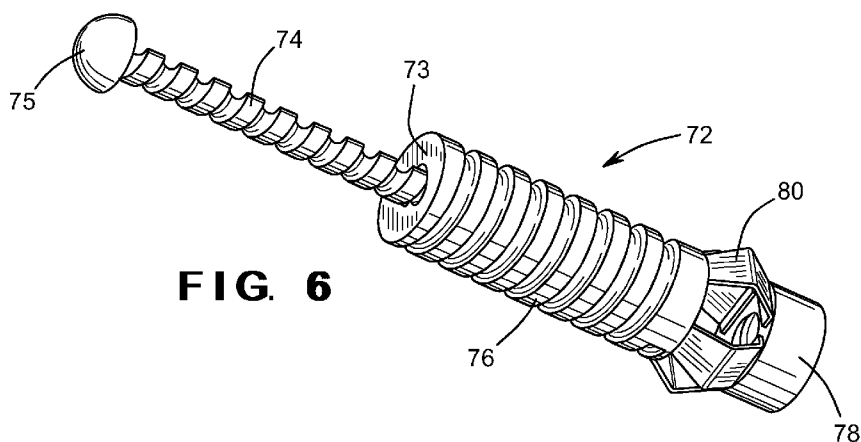


FIG. 6

(57) Abstract: A fusion device includes a screw having a head and a shaft. A hollow bone dowel is disposed about the shaft of the screw. The bone dowel is formed from a bone-like, biocompatible, or allograft material.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US14/43830

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61B 17/86; 17/70; A61F 2/44 (2014.01)

CPC - A61F 2/446; A61B 17/7064, 17/8685

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)

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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)

MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); ProQuest; Google/Google Scholar; IP.com; KEYWORDS: fusion*, fusing, join*, stabiliz*, spondylosyndesis*, screw*, bolt*, dowel*, sleeve*, tube*, bone*like, bone*, artificial*, like, similar*, bio*compat*, allograft*, screw*, inter*body, inter*spinous*, fixat*

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011/0144766 A1 (KALE, S et al.) 16 June 2011; abstract; figures 4A, 4C, 7A-7C, 17; paragraphs [0053], [0056], [0082]-[0084], [0093]-[0095], [0097]-[0098], [0119]-[0120]; claims 1, 18	1-8, 10-15 ----- 9, 16-31
Y	US 2011/0295319 A1 (DUPLESSIS, SJ et al.) 01 December 2011; abstract; figure 3; paragraphs [0080], [0091], [0097]-[0098]	9, 16-17
Y	US 2009/0036926 A1 (HESTAD, HD) 05 February 2009; abstract; figure 3; paragraph [0031]	18-21
Y	US 2008/0300634 A1 (GRAY, W) 04 December 2008; abstract; figures 3-4; paragraph [0090]	22-25, 29-30
Y	US 2011/0160772 A1 (ARCENIO, GB et al.) 30 June 2011; abstract; figure 78A-78B, 79; paragraphs [0277]-[0278]	25-30
Y	US 2011/0319946 A1 (LEVY, MM et al.) 29 December 2011; figures 1A, 1C, 6B; paragraphs [0010], [0082]-[0083], [0085], [0089], [0094]-[0097]	31
Y	WO 2013/018062 A1 (SIEGAL, T et al.) 07 February 2013; page 1, first paragraph; page 13, final paragraph; figure 15B	31
A	WO 2013/052807 A2 (VRIONIS, FD et al.) 11 April 2013; entire document	1-31
A	US 2012/0109222 A1 (GOEL, VK et al.) 03 May 2012; entire document	1-31
A	US 2012/0083883 A1 (GINN, RS) 05 April 2012; entire document	1-31
A	US 2011/0184478 A1 (REILEY, MA) 28 July 2011; entire document	1-31

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Authorized officer:

Shane Thomas

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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 2011/0087294 A1 (REILEY, MA) 14 April 2011; entire document	1-31
A	US 2004/0034427 A1 (GOEL, VK et al.) 19 February 2004; entire document	1-31
A	US 2010/0082071 A1 (MOUMENE, M) 01 April 2010; entire document	1-31
P, X	WO 2013/116452 A2 (GOEL, VK et al.) 08 August 2013; entire document	1-31