

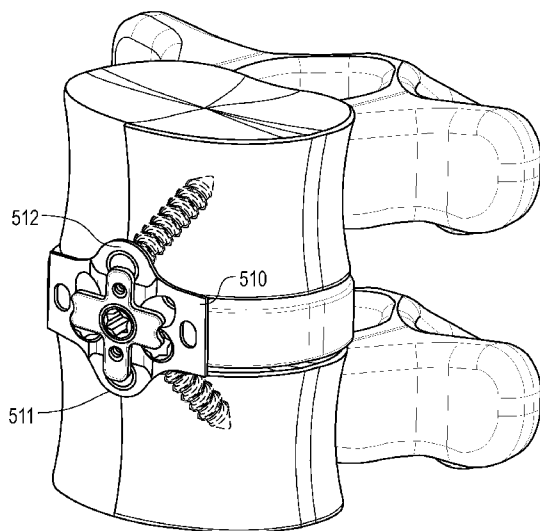


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[Continued on next page]

(54) Title: INTERBODY FUSION DEVICE WITH LIPPED ANTERIOR PLATE AND ASSOCIATED METHODS



(57) Abstract: A method and apparatus is provided for use in spinal fusion procedures. An interbody fusion device has a first piece that is a load bearing device designed to bear the axial loading from the end plates of adjacent vertebrae. A second piece of the interbody fusion device is a retention device whose function is to prevent migration of the load bearing device. One or more fasteners secure the retention device to the vertebrae above and below the load bearing device. The fasteners cause the end plates of the vertebrae to compress the end plates to the load bearing device to facilitate proper fusion. The second piece can be configured to include lips that abut the apophyseal rings during, with the plate including bores angled such that fasteners penetrate the apophyseal rings.

FIG. 31



SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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A. CLASSIFICATION OF SUBJECT MATTER

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USPC - 606/246, 286, 248, 60, 53, 279, 301, 300, 247, 280, 281, 289

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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-Granted, US-Applications, EP-A, EP-B, WO, JP (bibliographic data only), DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A);
 DialogPRO; Google; Google Scholar; IP.com; Search Terms Used: Spinal, spine*, spondylodessi, vertebrae, back*bone, interbody,
 fusion, fuse, implant or, cervical, Fastener, screw, U, bore*, hole*, zero*profile

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2009/0105830 A1 (JONES, RJ et al.) April 23, 2009, abstract; figures 1-6, 12-14; paragraphs [0002], [0027], [0028], [0031], [0032], [0035], [0038]-[0042], [0044]; Claims 1, 2, 5, 6, 10, 11, 14, 15	1-16
Y	WO 2005/094297 A2 (TAYLOR, BA) October 13, 2005, figure 3; page 3, lines 26-32; page 4, lines 1-17; page 8, lines 1-13, Claims 15-19	1-16
Y	US 2008/0177263 A1 (FREEDMAN, S et al.) July 24, 2008, figures 2, 3B, 6	1-16
Y	US 2010/0305704 A1 (MESSERLI, D et al.) December 2, 2010, figure 2A; paragraphs [0006], [0048]	5
Y	US 2006/0247639 A1 (ANDERSON, K) November 2, 2006, column 7, lines 30-34	11
Y	US 2008/0269806 A1 (ZHANG, J et al.) October 30, 2008, figure 5, paragraph [0034]	12, 13
E, Y	WO 2012/040268 A2 (CHILDS, J) March 29, 2012, entire document	1-16
A	SCHOLZ, MD, M, et al. A New Zero-Profile Implant For Stand-Alone Anterior Cervical Interbody Fusion. Clin Orthop Relat Res. 30 September 2010, Vol. 469, pp 666-673, DOI 10.1007/s11999-010-1597-9.	1-16
A	Zero-P Instruments and Implants: Zero-Profile Anterior Cervical Interbody Fusion (ACIF) Device: Technique Guide. Synthes Spine: Instruments and Implants Approved by the AO Foundation, April 2010, entire document.	1-16

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