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A61F 2/82 (2006.01) *A61M 29/04* (2006.01)
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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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, 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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[Continued on next page]

(54) **Title:** BIFURCATED STENT AND METHOD OF USE

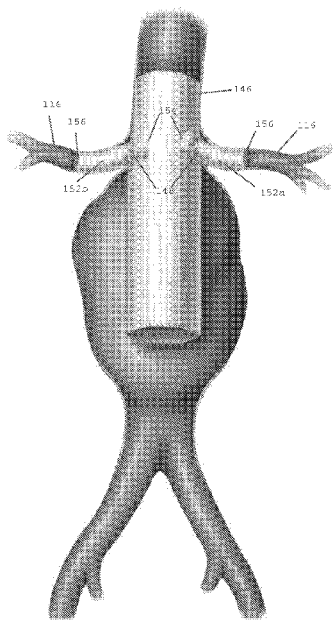


Figure 3

(57) **Abstract:** A stent system is provided for percutaneous insertion in an artery of a main stent which may include at least one peripheral fenestration defined through the stent wall. The peripheral fenestration may be configured to be expanded in situ to receive a peripheral stent. The stent system also may include a peripheral stent configured to be inserted into the peripheral fenestration of the main stent. The peripheral stent may extend, when inserted in the peripheral fenestration, generally perpendicular to the longitudinal axis of the main stent. The stent system may further include a guidewire, insertable through the peripheral aperture, for maneuvering the main stent into place in the artery. The guidewire may be tapered toward its distal end. The stent system may also include a dilation device for dilating the peripheral stent within the peripheral aperture.





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PCT/US2012/024038**A. CLASSIFICATION OF SUBJECT MATTER***A61F 2/86(2006.01)i, A61F 2/82(2006.01)i, A61M 29/02(2006.01)i, A61M 29/04(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)

A61F 2/86; A61F 2/06; A61F 2/82; D03D 41/00; A61F 2/90; A61F 2/84

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: stent, installation, vessel, cylindrical, fenestration, wall, peripheral, perpendicular, aperture, guidewire, self-expand, restraint, non-self expand, mesh, slit and similar terms

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 2009-0164001 A1 (BIGGS, D. P. et al.) 25 June 2009 See abstract; figures 3,4,8,11,12; paragraphs [0012],[0013],[0045],[0066]; claims 1-16.	1-5, 16-18, 21, 22 6-10, 13, 19, 20, 23 11, 12, 14, 15
X Y A	US 2010-0063576 A1 (SCHAEFFER, D. G. & KUPPURATHANAM, S.) 11 March 2010 See abstract; figures 5,6; paragraphs [0023],[0038],[0043]-[0049]; claims 1-19.	1-3, 5, 17, 18, 21, 22 6-15, 19, 20, 23 4, 16
X Y A	US 2007-0276468 A1 (HOLZER, A. et al.) 29 November 2007 See abstract; figures 2-8; paragraphs [0082],[0083],[0094],[0097],[0129] -[0156]; claims 1-24.	1-4, 17 6-15, 19, 20, 23 5, 16, 18, 21, 22
A	US 2002-0143383 A1 (PARODI, J. C.) 03 October 2002 See the entire document.	1-23

 Further documents are listed in the continuation of Box C. See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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A	US 6325826 B1 (VARDI; G. M. et al.) 04 December 2001 See the entire document.	1-23
A	US 2003-0236566 A1 (HEUSER, R. R.) 25 December 2003 See the entire document.	1-23
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