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(71) Applicant (for all designated States except US): NMT MEDICAL, INC. [US/US]; 27 Wormwood Street, Boston, Massachusetts 02210-1625 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): OPOLSKI, Steven, W. [US/US]; 330 Fiske Street, Carlisle, Massachusetts 01741 (US). KLADAKIS, Stephen, M. [US/US]; 56 Boylston Street, Watertown, Massachusetts 02472 (US).

(74) Agent: LARI, Ayla, A.; Wilmer Cutler Pickering Hale and Dorr LLP, 60 State Street, Boston, Massachusetts 02109 (US).

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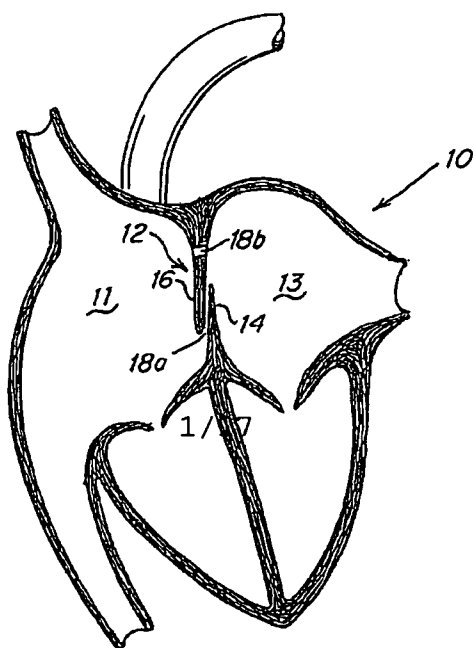
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(54) Title: RADIOPAQUE BIOABSORBABLE OCCLUDER



(57) Abstract: The present invention provides an occluder for a biological defect, such as an atrial septal defect (ASD) or a patent foramen ovale (PFO). The occluder is at least partially formed of a radiopaque, bioabsorbable material. In some embodiments, the occluder is formed from a tube, which is cut to produce struts in each side. Upon the application of force, the struts deform into loops. The radiopaque, bioabsorbable material is a blend of a biocompatible radiopaque material with a bioabsorbable material. In some embodiments, the radiopaque material may have a mass attenuation coefficient greater than about 1.2 cm²/gm and/or a linear attenuation coefficient greater than about 9 cm⁻¹. In some embodiments, the radiopaque material is tungsten. In some embodiments, the bioabsorbable material may have a molecular weight greater than about 300,000. In some embodiments, the bioabsorbable material is a polymer.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/41255

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **A61F 2/02** (2006.01)

USPC: 623/23.72

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)

U.S. : 623/23.72

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)

EAST - occluder, absorbable, degradable, radiopaque, scaffold

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/0139819 A1 (Beer et al.) 24 July 2003 (24.07.2003), entire document.	1-58
Y	US 2004/0073242 A1 (Chanduszko) 15 April 2004 (15.04.2004), entire document.	7, 17, 29, 39, 40

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"X"

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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

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Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 273-3201

Authorized officer

Melanie Tyson

Telephone No. (571) 272-9062