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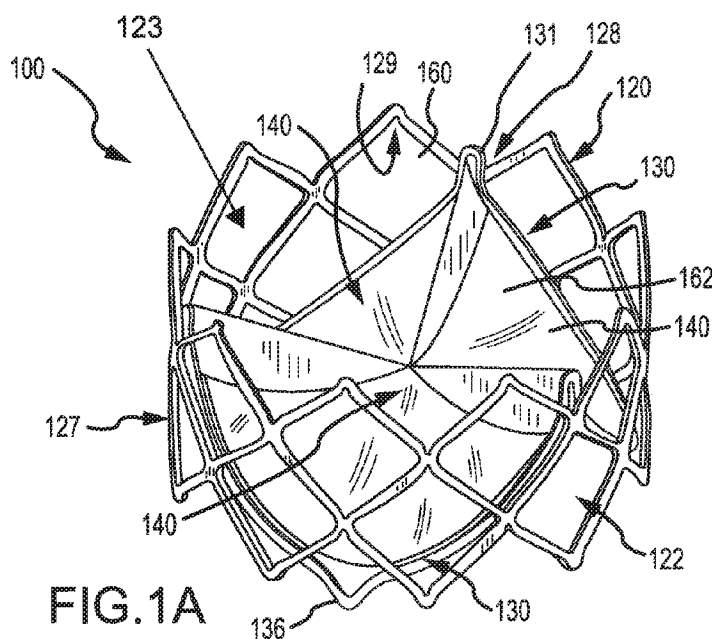
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(54) Title: MULTI-FRAME PROSTHETIC VALVE APPARATUS AND METHODS



(57) Abstract: Described embodiments are directed to-
ward centrally-opening leaflet prosthetic valve devices
having a leaflet frame coaxially disposed within a body
frame, as well as methods of making the valve devices. A
method of making a multi-frame prosthetic valve (100)
comprises: providing a body frame (120) defining a gen-
erally tubular shape defining a body frame lumen;
providing a leaflet frame (130) having a generally annu-
lar shape defining a plurality of U-shaped portions each
defining a base and a plurality of posts; providing a film;
forming a first layer of the film into a tubular form;
coaxially placing the leaflet frame over the tubular form
of the first layer of film; wrapping the film around the
leaflet frame and the tubular form of the first layer of
film, the film extending across each of the U-shaped por-
tions so as to define a leaflet (140) therein; bonding the
first layer and the second layer to each other and the
leaflet frame; clamping the leaflets disposed in the U-
shaped portions to enclose the leaflets; forming a third
layer of the film over the leaflet frame; placing the body
frame over the third layer of the film and over the leaflet
frame such that the leaflet frame is coaxially disposed
within the body frame lumen forming a fourth layer of
the film over the body frame and the third layer of the
film; and bonding the third layer and the fourth layer to
each other and the body frame.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2013/051431

A. CLASSIFICATION OF SUBJECT MATTER

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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)

A61F

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)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011/218619 A1 (BENICHO NETANEL [IL] ET AL) 8 September 2011 (2011-09-08)	1-3, 10-14, 20,21
Y	paragraphs [0078], [0082], [0105] - [0106]; figures 9-10	4-9, 15-19
A	US 2006/122693 A1 (BIADILLAH YOUSSEF [CA] ET AL) 8 June 2006 (2006-06-08) paragraphs [0061] - [0086]; figures 1-4	1-26
A	US 2004/243222 A1 (OSBORNE THOMAS A [US] ET AL) 2 December 2004 (2004-12-02) paragraphs [0047] - [0048], [0080] - [0082]; figures 15-16	1-26
A	US 2008/065198 A1 (QUINTESSENZA JAMES [US]) 13 March 2008 (2008-03-13) paragraphs [0038], [0044]; figures 15,16	1-26
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Further documents are listed in the continuation of Box C.



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	US 2004/024448 A1 (CHANG JAMES W [US] ET AL) 5 February 2004 (2004-02-05) cited in the application the whole document -----	4-9, 15-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

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