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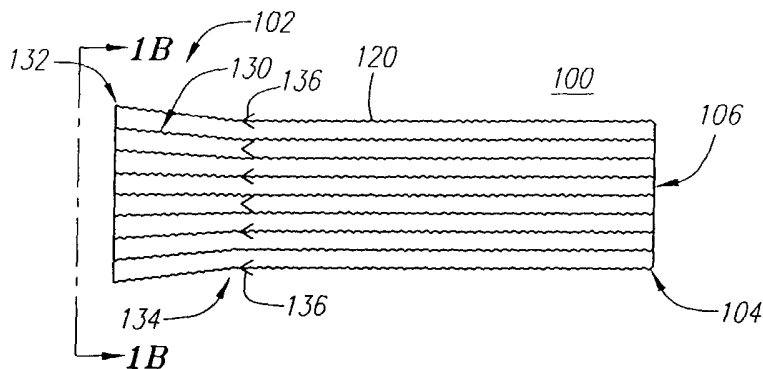
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(54) Title: TEXTURED AND DRUG ELUTING CORONARY ARTERY STENT



(57) Abstract: The present invention provides for reinforced and drug eluting stent-grafts (100) and related methods of implanting and manufacturing the stent-grafts. A stent-graft (100) of the present invention may include a tubular stent (110), a biocompatible covering (140) surrounding the stent and a supporting collar (130) coupled to the proximal end of the stent-graft. A drug agent may be applied to a textured external surface layer of the biocompatible covering, or alternatively to a space between the textured external surface (120) and a smooth (122) luminal surface layer of the biocompatible covering, and allowed to elute over time into a wall of a body lumen after the stent-graft is deployed. The collar (130) of the stent-graft absorbs pressure exerted on the stent-graft by fluid flow within the body lumen in order to minimize potential damage to the stent-graft, and may also include barbs to further secure the stent-graft to the body lumen.

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0065377 A1 (Davila et al.) 03 April 2003, (03.04.2003), See sections 0176-0222 and Figures 24-29.	1, 3-6, 12-13, 18-20
P, Y	US 2003/0199993 A1 (Gellman et al.) 23 October 2003, (23.10.2003), See sections 0039-0070 and figures 1a-1c.	24-26, 28-43 1-49

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See patent family annex.

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