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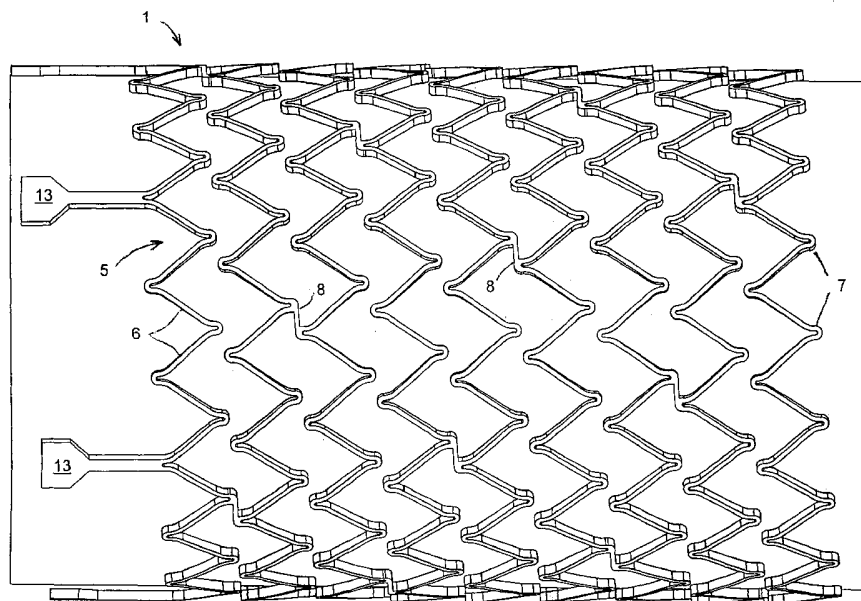
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(54) Title: STENT AND METHOD FOR MANUFACTURING THE STENT



(57) Abstract: A stent includes a stent body (1) having a circumference, a diameter of between approximately 4 mm and approximately 12 mm, in particular, 8 mm, and a length of between approximately 10 mm and approximately 250 mm, in particular, 150 mm, and struts disposed helically about the circumference in turns (4). Substantially circumferentially oriented connecting bridges (8) connect respectively adjacent ones of the turns. A method for manufacturing a helical stent includes the steps of providing a stent body with struts disposed about the circumference thereof in turns and with bridges connecting the struts in adjacent turns. The stent body is expanded and, thereafter, some of the bridges, in particular, sacrificial bridges, are removed.

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC: **A61F 2/06**( 2006.01)

USPC: 623/1.15

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. : 623/1.15

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 6,042,597 A (Kveen et al) 28 March 2000 (28.03.2000), see Figs. 1-2.	19 and 22
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Y		1-6, 8-10, 12-18 and 20
Y	US 5,514,154 A (Lau et al) 07 May 1996 (07.05.1996), see Figs. 12-14 and col. 6, lines 17-33.	6, 7, 11-18, 20 and 21
A	US 6,551,351 B2 (Smith et al) 22 April 2003 (22.04.2003), see Figs. 2-6.	1-22
A	US 5,810,872 A (Kanesaka et al) 22 September 1998 (22.09.1998), see Figs. 1-8.	1-22
A,E	US 7,037,331 B2 (Mitelberg et al) 02 May 2006 (02.05.2006), see Figs. 1-3.	1-22

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

☐ See patent family annex.

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