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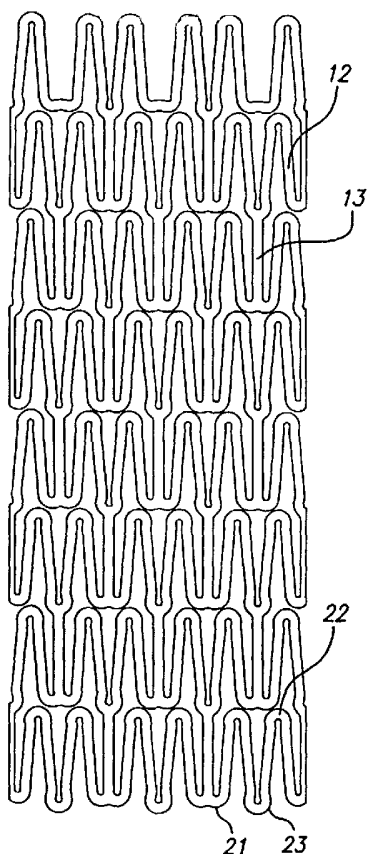
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[Continued on next page]

(54) Title: STENT DESIGN WITH INCREASED VESSEL COVERAGE



(57) Abstract: A stent with an increased vessel coverage includes a plurality of radially expandable cylindrical elements generally arranged on a common longitudinal stent axis and interconnected by one or more interconnecting members placed so that the stent remains flexible in a longitudinal direction. Each cylindrical element is formed in a generally serpentine wave pattern having alternating valley and peak portions which is capable of nesting when crimped or placed in a compressed condition. The valley portions and peak portions may be V-shaped and W-shaped elements which have different longitudinal lengths which permit the nesting of the cylindrical element. The stent can be made to be expandable by an external force, such as a balloon expandable dilatation catheter, or can be self-expanding when made from a material which is self-expanding.

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## INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61F2/06

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)

IPC 7 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 practical, 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	WO 99 15108 A (COOK INC ;MED INST INC (US)) 1 April 1999 (1999-04-01)  abstract; figures	1,2,5, 11,17, 21-23
X	WO 00 64374 A (ADVANCED CARDIOVASCULAR SYSTEM) 2 November 2000 (2000-11-02) page 12, line 25 -page 16, line 26; claim 11; figures	1,11,17, 21-23
P,X	WO 01 34241 A (ENDOVASCULAR TECH INC) 17 May 2001 (2001-05-17)  page 17, line 15 -page 18, line 23; figures 4-7	1,11, 17-19, 21,23
A		3,4,22

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

☒ Patent family members are listed in annex.

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- \*Z\* document member of the same patent family

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

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