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[Continued on next page]

(54) Title: METHOD OF MANUFACTURE OF A BIOABSORBABLE METAL MEDICAL DEVICE

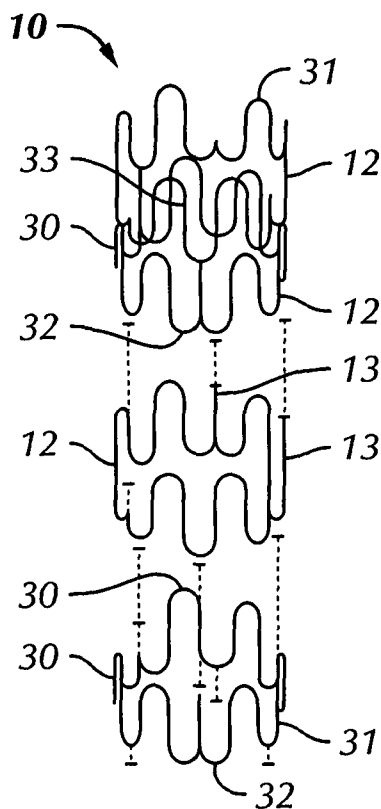


Fig. 1

(57) Abstract: A method is provided for processing a medical device (10) formed from a bioabsorbable metallic material. The method begins by generating a beam of radiation (22) onto the bioabsorbable metallic material. The radiation beam is transmitted through a fluid medium (23) and onto a heat affected zone (HAZ) of the bioabsorbable metallic material to thereby cool the HAZ and reduce a concentration of oxygen surrounding the HAZ.

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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

INV. B23K26/12 B23K26/14 B23K26/40 A61F2/90 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)  
B23K 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, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 780 807 A (SAUNDERS RICHARD J [US]) 14 July 1998 (1998-07-14) cited in the application column 3, line 27 - line 38 column 6, line 40 - line 41 column 8, line 3 - line 8 column 8, line 55 - line 65; figures 1-6,9	1,7,11, 14,15,17
X	US 6 369 355 B1 (SAUNDERS RICHARD J [US]) 9 April 2002 (2002-04-09) column 3, line 30 - line 38 column 6, line 42 - line 43 column 8, line 7 - line 12 column 8, line 60 - column 9, line 3; claims 1,3,4; figures 1-6,9	1,11,14, 15,17

 Further documents are listed in the continuation of Box C. See patent family annex.

## \* Special categories of cited documents:

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- \*E\* earlier document but published on or after the international filing date
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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- \*&\* document member of the same patent family

Date of the actual completion of the international search

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## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/002975

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 696 666 B2 (MERDAN KENNETH M [US] ET AL) 24 February 2004 (2004-02-24) cited in the application column 2, line 35 - line 38 column 3, line 21 - line 28 column 5, line 62 - column 6, line 10; figures 1,2	1,11,14, 15,17
A	US 2004/098108 A1 (HARDER CLAUS [DE] ET AL) 20 May 2004 (2004-05-20) cited in the application paragraph [0008] paragraph [0014]; claims 1,-6,21-24	1-6,11, 14,15,17
A	US 2004/220660 A1 (SHANLEY JOHN F [US] ET AL) 4 November 2004 (2004-11-04) cited in the application the whole document	1-4,11, 14,15,17
A	US 6 287 332 B1 (BOLZ ARMIN [DE] ET AL) 11 September 2001 (2001-09-11) cited in the application the whole document	1,2
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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2007/002975

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-6, 11, 14, 15, 17

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6, 11, 14, 15, 17

Method of processing transmitting radiation through a cooling medium on a medical device of magnesium alloy  
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2. claims: 7, 8

Method of processing transmitting radiation through a fluid column  
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3. claims: 9, 10

Method of processing transmitting radiation through water  
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4. claim: 12

Method of joining radiation through a cooling medium  
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5. claim: 13

Method of surface treatment transmitting radiation through a cooling medium  
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6. claim: 16

Method of processing transmitting radiation through a cooling medium on a filter device  
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Information on patent family members

International application No

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