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**Published:**

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
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(54) Title: METHODS OF TREATING A PATIENT RECEIVING A CARDIAC STENT IMPLANT

(57) Abstract: Methods of treating a patient receiving a cardiac stent implant including the steps of: (i) monitoring the circulating level of Tn I or CK-MB in the patient; and (ii) administering SERP-I to the patient in an amount sufficient to prevent the circulating level of Tn I or CK-MB from exceeding a specified threshold for the first 24 hours following implantation are disclosed. A specified value of SERP-I is sufficient for preventing circulating level of Tn I or CK-MB from exceeding a specified threshold during the first 24 hours following implantation. The dosing regime of SERP-I to the patient starting within 24 hours of post-implantation is also disclosed.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 10/02701

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61K 38/16, 38/37 (2011.01)

USPC - 514/13.5, 514/20.3

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(8) - A61K 38/16, 38/37 (2011.01)

USPC - 514/13.5, 514/20.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC(8) - A61K 38/16, 38/37 (2011.01) - see keyword below

USPC - 514/13.5, 514/20.3 - see keyword below

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST(USPT,PGPB,EPAB,JPAB); Medline, Google:

cardiac, heart, myocardia, stent implant, troponin I, Tnl, circulating, SERP-1, VT-111, Viral Serine Proteinase Inhibitor, implantation, threshold, CK-MB, statins, Atorvastatin, creatinine kinase MB fraction, CK-MB, Cholesterol, inflammatory, inflammation

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BRIGUORI et al. Novel Approaches for Preventing or Limiting Events (Naples) II Trial: Impact of a Single High Loading Dose of Atorvastatin on Periprocedural Myocardial Infarction. J Am Coll Cardiol. 2009 Dec, Vol. 54(23), p. 2157-63. Epub 2009 Aug 6. Abstract - Object, Methods, Results, and Conclusions; pg 2158, col 1, top para and last para; pg 2161, Fig 2; and pg 2163, col 1, middle para	1-20, 46-49, 51-66, 96-102
Y	US 2003/0171263 A1 (LUCAS et al.) 11 September 2003 (11.09.2003), Abstract, para [0009], [0029], [0074], [0075], [0076], [0077], [0106], and [0126]	1-20, 46-49, 51-66, 96-102
Y	SCIASCIO et al. Efficacy of Atorvastatin Reload in Patients on Chronic Statin Therapy Undergoing Percutaneous Coronary Intervention: Results of the ARMYDA-RECAPTURE (Atorvastatin for Reduction of Myocardial Damage During Angioplasty) Randomized Trial. J Am Coll Cardiol. 2009 Aug, Vol. 54(6), p. 558-65. Epub 2009 Jul 2. Abstract; pg 560, col 1, last para; pg 562, col 2, top para; and pg 563, col 1, top para	1-4, 9-13, 18-20, 46-47, 49, 51-60, 96-99, 102
A	WO 2007/059253 A2 (COTTONE et al.) 24 May 2007 (24.05.2007), para [00057]	1-20, 46-49, 51-66, 96-102
A	ROONGSRITONG et al. Common Causes of Troponin Elevations in the Absence of Acute Myocardial Infarction : Incidence and Clinical Significance. Chest. 2004, Vol. 125(5), p. 1877-84. pg 1877, col 2, last para	1-20, 46-49, 51-66, 96-102
P,A	TARDIF et al. A randomized controlled, phase 2 trial of the viral serpin Serp-1 in patients with acute coronary syndromes undergoing percutaneous coronary intervention. Circ Cardiovasc Interv. 2010, Vol. 3(6), p. 543-8. Abstract [online]. [Retrieved on 2011.02.17]. Retrieved from the Internet: <URL: <a href="http://www.ncbi.nlm.nih.gov/pubmed?term=Troponin%20Serp-1%20">http://www.ncbi.nlm.nih.gov/pubmed?term=Troponin%20Serp-1%20</a> > Entire document; should be P,X reference, but couldn't obtain pdf file	1-20, 46-49, 51-66, 96-102

 Further documents are listed in the continuation of Box C. 

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"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

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

20 February 2011 (20.02.2011)

Date of mailing of the international search report

15 MAR 2011

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 10/02701

**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.: 21-45, 50, 67-95, 103  
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:

- 1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
- 2.  As all searchable claims could be searched without effort justifying 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.:

**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.