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(71) Applicant *(for all designated States except US)*: **MEDSTAR RESEARCH INSTITUTE** [US/US]; 108 Irving Street, N.W., Annex 5, Washington, DC 20010 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **EPSTEIN, Stephen, E.** [US/US]; 11700 Danville Drive, Rockville, MD 20852 (US).

(74) Agent: **BOLAND, Thomas, R.**; Vorys, Sater, Seymour and Pease LLP, Suite 1111, 1828 L Street N.W., Washington, DC 20036-5104 (US).

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(54) Title: INHIBITION OF PROTEASOMES TO PREVENT RESTENOSIS

(57) Abstract: Restenosis of blood vessels after angioplasty is achieved by preventing of cell proliferation, particularly of smooth muscle cells, in blood vessel walls by inhibiting the ubiquitin-proteasome protein degradation pathway. The inhibition is accomplished by administering to the cells in the blood vessel walls a compound, e.g., a protein or small molecule, capable of inhibiting the ubiquitin-proteasome protein degradation pathway. The inhibiting compound is preferably administered by coating the compound on a stent and implanting the stent in the blood vessel after angioplasty.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/02367

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/00, 38/48, 49/00; A61F 2/06, 2/24; C12N 9/48; A61M 25/00
US CL : 514/1; 424/9.2, 94.63, 409, 411, 417; 435/212; 604/6.16, 11, 27; 623/1.21, 23.7

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. : 514/1; 424/9.2, 94.63, 409, 411, 417; 435/212; 604/6.16, 11, 27; 623/1.21, 23.7

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.
Y	Author (N.A.) Enrollmemt completed for phase II trial of LDP-341. Drug Week. November 2, 2001, page 36-37. Entire document.	1, 2, 4 and 6
Y, P	Kohn, C. Proteasome inhibitor shows promise for patients with refractory disease. Drug Week. January 25, 2002, page 21-22. Entire document.	1, 2, 4 and 6
Y	Author (N.A.) Old and new drug may fight myeloma. Science News. December 16, 2000. Vol. 158, page 399. Entire document.	1, 2, 4 and 6
Y	Christensen D. Things Just mesh. Science News. November 24, 2001. Vol. 160, page 328-330. Ehtire document.	3 and 5
Y	Henderson, C. W. Sirolimus-coated stent still effective at 12 months' follw-up. Biotech Week. January 17, 2001. page 8. Especially the first and fifth paragraphs..	1, 4 and 6
Y	Ruth, J.-P. S. Stock to watch: Johnson & Johnson. Business News. September 11, 2001, Vol. 14, page 20. Entire document.	1, 4 and 6

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