



US007378396B2

(12) **United States Patent**
Hazen et al.

(10) **Patent No.:** **US 7,378,396 B2**
(45) **Date of Patent:** **May 27, 2008**

(54) **THERAPEUTIC AGENTS AND METHODS FOR CARDIOVASCULAR DISEASE**

FOREIGN PATENT DOCUMENTS

(75) Inventors: **Stanley L. Hazen**, Pepper Pike, OH (US); **Marc S. Penn**, Beachwood, OH (US)

WO 01/38395 A1 5/2001

(73) Assignee: **The Cleveland Clinic Foundation**, Cleveland, OH (US)

(Continued)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

OTHER PUBLICATIONS

"Oxidized LDL and HDL: antagonists in atherothrombosis" by Mertens, et al., FASEB J., 15, 2073-2084 (2001).

(21) Appl. No.: **11/198,005**

(Continued)

(22) Filed: **Aug. 5, 2005**

Primary Examiner—Jeffrey Edwin Russel

(74) Attorney, Agent, or Firm—Calfee, Halter & Griswold LLP

(65) **Prior Publication Data**

US 2006/0074026 A1 Apr. 6, 2006

Related U.S. Application Data

(60) Provisional application No. 60/600,527, filed on Aug. 11, 2004, provisional application No. 60/600,551, filed on Aug. 11, 2004.

(51) **Int. Cl.**

A61K 38/07 (2006.01)
A61K 38/08 (2006.01)
A61K 38/10 (2006.01)
A61K 38/16 (2006.01)

(52) **U.S. Cl.** **514/14; 514/13; 514/15; 514/16; 514/17; 514/18; 530/326; 530/327; 530/328; 530/329; 530/330**

(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,122,534 A 6/1992 Loose et al.

(Continued)

11 Claims, 9 Drawing Sheets

