(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 October 2014 (23.10.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/170786 A1

(51) International Patent Classification:
C07D 401/14 (2006.01) *C07D 471/04* (2006.01)
C07D 413/14 (2006.01) *C07D 487/04* (2006.01)
A61K 31/4725 (2006.01) *A61P 7/00* (2006.01)
A61K 31/519 (2006.01)

(21) International Application Number:
PCT/IB2014/060407

(22) International Filing Date:
3 April 2014 (03.04.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/812,864 17 April 2013 (17.04.2013) US
61/880,336 20 September 2013 (20.09.2013) US
61/898,667 1 November 2013 (01.11.2013) US

(71) Applicant: **PFIZER INC.** [US/US]; 235 East 42nd Street, New York, New York 10017 (US).

(72) Inventors: **DAROUT, Etzer**; 700 Huron Avenue, Apt. 2H, Cambridge, Massachusetts 02138 (US). **DULLEA, Robert**; 63 Fairway Drive, Groton, Massachusetts 01450 (US). **HAWKINS, Julie Jia Li**; 1 Grey Fox Lane, Weston, Connecticut 06883 (US). **LONDREGAN, Allyn T.**; 26 Chapel Road, Barrington, Rhode Island 02806 (US). **LORIA, Paula M.**; 38 River Road, Killingworth, Connecticut 06419 (US). **MAGUIRE, Bruce**; 17 Waterhouse Lane, Chester, Connecticut 06412 (US). **MCCLURE, Kim F.**; 12 Willow Drive, Mystic, Connecticut 06355 (US). **PETERSEN, Donna N.**; 107 Forsyth Road, Salem, Connecticut 06420 (US). **PIOTROWSKI, David W.**; 19 Beacon Hill Drive, Waterford, Connecticut 06385 (US).

(74) Agent: **OLSON, A. Dean**; Pfizer Inc., Eastern Point Road MS8260-2141, Groton, CT 06340 (US).

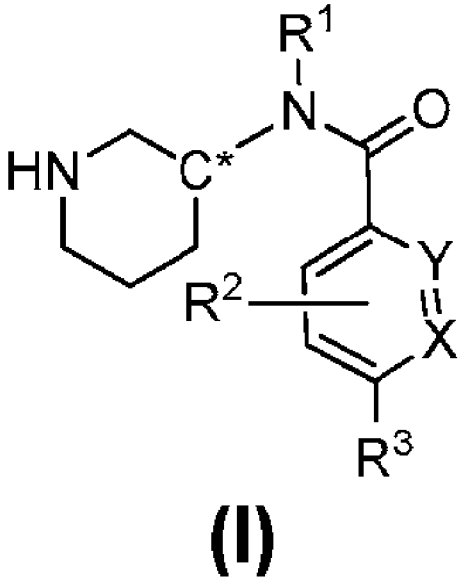
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,

[Continued on next page]

(54) Title: N-PIPERIDIN-3-YLBENZAMIDE DERIVATIVES FOR TREATING CARDIOVASCULAR DISEASES

(57) Abstract: The present invention is directed at substituted amide compounds of formula (I), pharmaceutical compositions containing such compounds and the use of such compounds to reduce plasma lipid levels, such as LDL- cholesterol and triglycerides and accordingly to treat diseases which are exacerbated by high levels of LDL-cholesterol and triglycerides, such as atherosclerosis and cardiovascular diseases, in mammals, including humans.



(I)

WO 2014/170786 A1

MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to the identity of the inventor (Rule 4.17(i))*

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

— *with international search report (Art. 21(3))*