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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 June 2016 (02.06.2016)

WIPO | PCT

(10) International Publication Number
WO 2016/086063 A1

(51) **International Patent Classification**:
A61K 31/05 (2006.01) *A61K 47/10* (2006.01)
A61K 31/16 (2006.01)

(21) **International Application Number**:
PCT/US2015/062531

(22) **International Filing Date**:
24 November 2015 (24.11.2015)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
62/084,515 25 November 2014 (25.11.2014) US
14/743,375 18 June 2015 (18.06.2015) US

(63) **Related by continuation (CON) or continuation-in-part (CIP) to earlier application**:
US 14/743,375 (CIP)
Filed on 18 June 2015 (18.06.2015)

(71) **Applicant**: **CONCENTRIC ANALGESICS, INC.** [US/US]; 1824 Jackson Street, Suite A, San Francisco, California 94109 (US).

(72) **Inventor**: **HUSFELD, Craig**; 1450 Ascension Drive, San Mateo, California 94402 (US).

(74) **Agent**: **MALECHA, James**; Wilson Sonsini Goodrich & Rosati, 650 Page Mill Road, Palo Alto, California 94304 (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, 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, ST, 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, 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 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))*

WO 2016/086063 A1

(54) **Title**: PRODRUGS OF PHENOLIC TRPV1 AGONISTS

(57) **Abstract**: Described herein are compounds, pharmaceutical compositions and medicaments that include such compounds, and methods of using such compounds to modulate transient receptor potential vanilloid 1 receptor (TRPV1) activity.