



(51) International Patent Classification:

*A61K 31/167* (2006.01) *A61P 11/14* (2006.01)  
*A61K 9/72* (2006.01)

(21) International Application Number:

PCT/GB2012/052190

(22) International Filing Date:

6 September 2012 (06.09.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/531,432 6 September 2011 (06.09.2011) US

(71) Applicant (for all designated States except US): **VER-  
ONA PHARMA PLC** [GB/GB]; One America Square,  
London, Crosswall EC3N 2SG (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **WALKER, Michael  
J.A.** [CA/CA]; 5989 Walter Gage Road, Apt. 1502, Van-  
couver, British Columbia V6T OAB (CA).

(74) Agent: **SRINIVASAN, Ravi Chandran**; J A Kemp, 14  
South Square, Gray's Inn, London, Greater London WC1R  
5JJ (GB).

(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, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,  
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,  
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,  
ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: TREATING COUGH AND TUSSIVE ATTACKS

(57) Abstract: The invention is directed towards carcanium in the form of a salt having an anion An<sup>-</sup>, wherein An<sup>-</sup> is an anion of  
pharmaceutically acceptable acid for use in the treatment and/or suppression of cough, tussive attacks or tussive episodes in a pa-  
tient.

