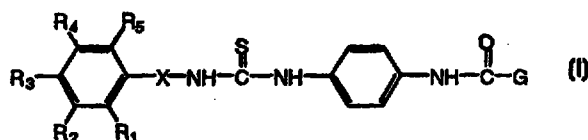




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : C07D 335/20, 285/06, 307/68, A61K 31/17, 31/41, 31/34, 61/425, 31/42, C07D 213/81, 417/12, 263/34, 277/56, 217/26, A61P 31/22		A3	(11) International Publication Number: WO 00/34260
(21) International Application Number: PCT/US99/28839		(43) International Publication Date: 15 June 2000 (15.06.00)	
(22) International Filing Date: 6 December 1999 (06.12.99)			
(30) Priority Data: 09/208,902 9 December 1998 (09.12.98) US			
(71) Applicant: AMERICAN HOME PRODUCTS CORPORATION [US/US]; Five Giralda Farms, Madison, NJ 07940-0874 (US).			
(72) Inventors: BLOOM, Jonathan, David; Apartment 4P, 103 Gedney Street, Nyack, NY 10960 (US). CURRAN, Kevin, Joseph; Apartment 6, 80 Burd Street, Nyack, NY 10960 (US). DIGRANDI, Martin, Joseph; 4 Garnet Lane, Congers, NY 10920 (US). DUSHIN, Russell, George; 667 Route 9D, Garrison, NY 10524 (US). LANG, Stanley, Albert; 7 Colony Drive, Blauvelt, NY 10913 (US). NORTON, Emily, Boucher; 41B North Broadway, Nyack, NY 10960 (US). ROSS, Adma, Antonia; 65 Campbell Avenue, Suffern, NY 10901 (US). O'HARA, Bryan, Mark; 124 Railroad Avenue, Pearl River, NY 10965 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
(74) Agents: BARRETT, Rebecca, R.; American Home Products Corporation, Patent Law Dept. - 2B, One Campus Drive, Parsippany, NJ 07054 (US) et al.		Published With international search report.	
		(88) Date of publication of the international search report: 8 September 2000 (08.09.00)	

(54) Title: ALPHA-METHYLBENZYL-CONTAINING THIOUREA INHIBITORS OF HERPES VIRUSES CONTAINING A PHENYLENEDIAMINE GROUP



(57) Abstract

Compounds having formula (I) wherein R_1 – R_5 are independently selected from hydrogen, alkyl of 1 to 6 carbon atoms, alkenyl of 2 to 6 carbon atoms, alkynyl of 2 to 6 carbon atoms, perhaloalkyl of 1 to 6 carbon atoms, cycloalkyl of 3 to 10 carbon atoms, heterocycloalkyl of 3 to 10 carbon members, aryl, heteroaryl, halogen, $-\text{CN}$, $-\text{NO}_2$, $-\text{CO}_2\text{R}_6$, $-\text{COR}_6$, $-\text{OR}_6$, $-\text{SR}_6$, $-\text{SOR}_6$, $-\text{SO}_2\text{R}_6$, $-\text{CONR}_7\text{R}_8$, $-\text{NR}_6\text{N}(\text{R}_7\text{R}_8)$, $-\text{N}(\text{R}_7\text{R}_8)$ or $\text{W}-\text{Y}-(\text{CH}_2)_n-\text{Z}$ provided that at least one of R_1 – R_5 is not hydrogen; or R_2 and R_3 , or R_3 and R_4 , taken together to form a 3 to 7 membered heterocycloalkyl or 3 to 7 membered heteroaryl; R_6 and R_7 are independently hydrogen, alkyl of 1 to 6 carbon atoms, perhaloalkyl of 1 to 6 carbon atoms, or aryl; R_8 is hydrogen, alkyl of 1 to 6 carbon atoms, perhaloalkyl of 1 to 6 carbon atoms, cycloalkyl of 3 to 10 carbon atoms, heterocycloalkyl of 3 to 10 members, aryl or heteroaryl, or R_7 and R_8 , taken together may form a 3 to 7 membered heterocycloalkyl; W is O , NR_6 , or is absent; Y is $-(\text{CO})-$ or $-(\text{CO}_2)-$, or is absent; Z is alkyl of 1 to 4 carbon atoms, $-\text{CN}$, $-\text{CO}_2\text{R}_6$, COR_6 , $-\text{CONR}_7\text{R}_8$, $-\text{OCOR}_6$, $-\text{NR}_6\text{COR}_7$, $-\text{OCONR}_6$, $-\text{OR}_6$, $-\text{SR}_6$, $-\text{SOR}_6$, $-\text{SO}_2\text{R}_6$, $\text{SR}_6\text{N}(\text{R}_7\text{R}_8)$, $-\text{N}(\text{R}_7\text{R}_8)$ or phenyl; G is aryl or fused bicyclic heteroaryl; X is a bond, $-\text{NH}$, alkyl of 1 to 6 carbon atoms, alkenyl of 1 to 6 carbon atoms, alkoxy of 1 to 6 carbon atoms, thioalkyl of 1 to 6 carbon atoms, alkylamino of 1 to 6 carbon atoms, or $(\text{CH}_2)_n$; J is alkyl of 1 to 6 carbon atoms, cycloalkyl of 3 to 7 carbon atoms, phenyl or benzyl; and n is an integer from 1 to 6; useful in the treatment of diseases associated with herpes viruses including human cytomegalovirus, herpes simplex viruses, Epstein-Barr virus, varicella-zoster virus, human herpesviruses-6 and-7, and Kaposi herpesvirus.