PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

990h290-4
IPOS

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :
C07J 31/00, A61K 31/57, C07J 7/00

A1

(11) International Publication Number: WO 98/50415

(43) International Publication Date: 12 November 1998 (12.11.98)

(21) International Application Number: PCT/US98/08485

(22) International Filing Date: 28 April 1998 (28.04.98)

(30) Priority Data:
08/850,876 2 May 1997 (02.05.97) US

(71) Applicant: AMERICAN HOME PRODUCTS CORPORATION [US/US]; Five Giralda Farms, Madison, NJ 07940–0874 (US).

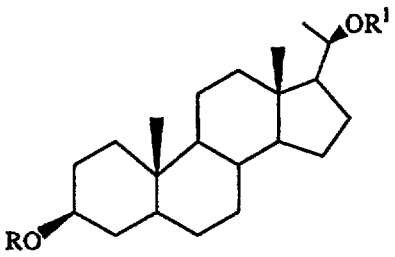
(72) Inventors: BENDER, Reinhold, Hans, Wilhelm; 101 Oakwood Lane, Valley Forge, PA 19481 (US). FLETCHER, Horace, III; 2382 Schaffer Road, Pottstown, PA 19464 (US). HUANG, Wenzhong, James; 8 Woodville Terrace, Somerville, NJ 08876 (US). KAGAN, Michael, Z.; 4 MacKenzie Lane, Plainsboro, NJ 08536 (US). SHAH, Syed, Muzafar; 13 Yvette Drive, East Hanover, NJ 07936 (US).

(74) Agents: ALICE, Ronald, W.; American Home Products Corporation, Patent Law Dept. – 2B, One Campus Drive, Parsippany, NJ 07054 (US) et al.

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: PREGNANE 3,20 DIOL MONO– AND DI–SULPHATES



(I)

(57) Abstract

This invention provides a compound having formula (I) wherein R and R^1 are each, independently, hydrogen or $SO_3^-X^+$; X^+ is alkali metal, alkaline earth metal, ammonium, alkylammonium containing 1–6 carbon atoms, or dialkylammonium containing 1–6 carbon atoms in each alkyl group, or trialkylammonium containing 1–6 carbon atoms in each alkyl group; with the proviso that R and R^1 are not both hydrogen, which is useful as a progestational agent.