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(21) International Application Number: PCT/US00/01630 (22) International Filing Date: 26 January 2000 (26.01.00) (30) Priority Data: 09/237,726 26 January 1999 (26.01.99) US (71) Applicant: AMERICAN CYANAMID COMPANY [US/US]; Five Giralda Farms, Madison, NJ 07940-0874 (US). (72) Inventors: LIN, Yang-I; 35 Constitution Drive, Tappan, NY 10983 (US). BITHA, Panayota; 287 Treetop Circle, Nanuet, NY 10954 (US). LI, Zhong; 120-2 North Route 303, Congers, NY 10920 (US). FRANCISCO, Gerardo, DelaCruz; 23 Henry Street, Orangeburg, NY 10962 (US). (74) Agents: NAGY, Michael, R.; American Home Products Corporation, Patent Law Dept. - 2B, One Campus Drive, Parsippany, NJ 07054 (US) et al.		(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). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: 3,6-DISUBSTITUTED PENAM SULFONE DERIVATIVES AS ANTIBACTERIALS (I) (II) (57) Abstract Compounds are provided having formulae (I) and (II) wherein n is 0 or 1 and when n=1, R is a 5 or 6 membered heterocyclic ring, hydroxy, halogen, oxo, carbamoyl, alkoxy, or disubstituted amino, when n=0, R is an ester, cyano or amide group; X is CH or NH; R₃ is cyano, methoxy, or acetamido; R₁ is hydrogen, alkyl, a negative charge, a cation selected from the group consisting of sodium, potassium and tetraalkylammonium and acyloxyalkyl, or alkoxy-carbonyloxyalkyl; and R₂ is hydrogen, acyl, trisubstituted silyl carbamoyl or an amino acid residue; or pharmaceutically acceptable salts thereof.		