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(21) International Application Number: PCT/US98/12284 (22) International Filing Date: 15 June 1998 (15.06.98) (71) Applicant (for all designated States except US): MACROCHEM CORPORATION [US/US]; 110 Hartwell Avenue, Lexington, MA 02173-3123 (US). (71)(72) Applicants and Inventors: SAMOUR, Carlos, M. [US/US]; 8 Emery Road, Bedford, MA 01730 (US). KRAUSER, Scott, F. [US/US]; 4 Bridgeview Circle #41, Tyngsboro, MA 01879 (US). GYURIK, Robert, J. [US/US]; 12 Ashbrook Road, Exeter, NH 03833 (US). (74) Agent: STEINBERG, Richard, A.; Sherman & Shalloway, 413 North Washington Street, Alexandria, VA 22314 (US).		(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, US, 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 <i>With international search report.</i>
(54) Title: COMPOSITION AND METHOD FOR TREATING PENILE ERECTILE DYSFUNCTION		
(57) Abstract		
A composition for the topical transdermal administration to the penis is based on prostaglandin E₁. The composition is non-irritating and effective for relieving erectile impotence or other penile erectile dysfunction. A penetration enhancing effective amount of a dioxolane, dioxane, or acetal skin penetration enhancing compound in a pharmaceutically acceptable aqueous alcoholic carrier is used to facilitate the penetration of the prostaglandin E₁ active ingredient through the skin. Phentolamine or prazosin may be used in combination with or in place of prostaglandin E₁.		