

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 August 2004 (12.08.2004)

PCT

(10) International Publication Number
WO 2004/066934 A2

(51) International Patent Classification⁷: **A61K**

(21) International Application Number:
PCT/US2004/000206

(22) International Filing Date: 23 January 2004 (23.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/350,232 24 January 2003 (24.01.2003) US

(71) Applicant (for all designated States except US): **RE-SEARCH TRIANGLE INSTITUTE** [US/US]; 3040 Cornwallis Road, Research Triangle Park, NC 27709 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COOK, Clarence, Edgar** [US/US]; 857 Stingy Hollow Road, Staunton, VA 24401 (US). **SLOAN, Carol, Delta** [US/US]; 1102 Joseph Johnston Court, Hillsborough, NC 27278 (US). **THOMAS, Brian, Frazier** [US/US]; 3 Fontana Court,

Durham, NC 27713 (US). **NAVARRO, Hernan, A.** [US/US]; 6812 Huntingridge Road, Chapel Hill, NC 27517 (US).

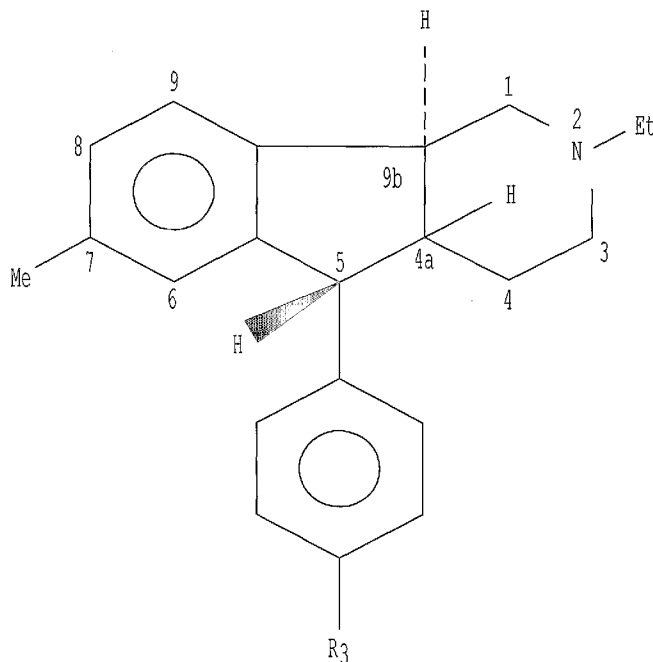
(74) Agent: **MASON, J., Derek**; Oblon, Spivak, McClelland, Maier & Neustadt, P.C., 1940 Duke Street, Alexandria, VA 22314 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: SPERMICIDAL AND/OR ANTIFUNGAL COMPOSITION AND METHODS OF USING THE SAME



(57) Abstract: Hexahydroindenopyridine compounds are provided which act as spermicides and/or fungicides, spermicidal and/or fungicidal compositions containing the same, and methods for killing motile sperm and/or fungi using the compounds and compositions.

1. R₃ = CH₃
2. R₃ = COOH
3. R₃ = COOMe



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *without international search report and to be republished upon receipt of that report*