(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/095394 A1

(51) International Patent Classification[7]: C07D 459/00

(21) International Application Number:
PCT/EP2005/002190

(22) International Filing Date: 2 March 2005 (02.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2004A000582 25 March 2004 (25.03.2004) IT

(71) Applicant *(for all designated States except US)*: **INDENA S.P.A.** [IT/IT]; Via Ortles, 12, I-20139 Milano (IT).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **FONTANA, Gabriele** [IT/IT]; Viale Ortles, 12, I-20139 Milano (IT). **BOMBARDELLI, Ezio** [IT/IT]; Via Gabetta, 13, I-27027 Groppello Cairoli (IT). **SAMORI, Cristian** [IT/IT]; Via Tripoli, 49, I-47100 Forli (IT). **BALDELLI, Eleonora** [IT/IT]; Via Saliceto. 23, I-40129 Bologna (IT). **GUERRINI, Andrea** [IT/IT]; c/o ISOF, Via P. Gobetti, 101, I-40129 Bologna (IT). **BATTAGLIA, Arturo** [IT/IT]; c/o ISOF, Via P. Gobetti, 101 (IT). **DANIELI, Bruno** [IT/IT]; Via S. Martino della Battaglia, 11/C, I-20122 Milano (IT).

(74) Agents: **BIANCHETTI, Giuseppe** et al.; Via Plinio, 63, I-20129 Milano (IT).

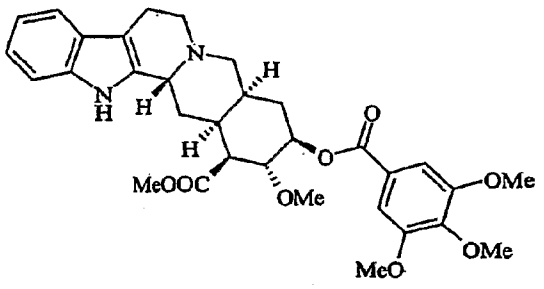
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, 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, SM, 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, NA, SD, SL, SZ, TZ, UG, ZM, ZW), 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, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

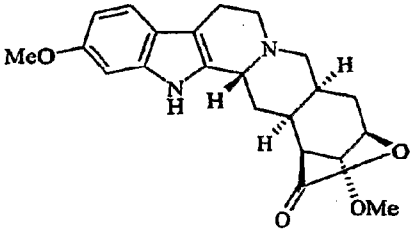
Published:
— *with international search report*

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.

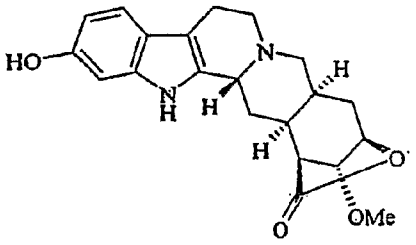
(54) Title: A PROCESS FOR THE SEMISYNTHESIS OF DESERPIDINE



(Ia)



(II)



(III)

(57) Abstract: The present invention relates to an efficient procedure for the synthesis of deserpidine (Ia), starting from reserpic acid lactone (II) via the intermediate 11-*O*-demethyl reserpic acid lactone (III).

WO 2005/095394 A1