

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/018423 A1

(51) International Patent Classification⁷: **C07D 211/16**

406-602 Expo Apt., Jeonmin-dong, Yusung-gu, Daejeon
305-761 (KR).

(21) International Application Number:

PCT/KR2003/001665

(74) Agent: **C & S PATENT AND LAW OFFICE**; 2306
Daelim Acrotel, 467-6 Dogok-dong, Kangnam-gu, Seoul
135-971 (KR).

(22) International Filing Date: 19 August 2003 (19.08.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10/228,869

26 August 2002 (26.08.2002) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, 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, MZ, 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, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant: **SK CORPORATION** [KR/KR]; 99 Seorin-
dong, Jongro-ku, Seoul 110-110 (KR).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (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 patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors: **CHOI, Yong-Moon**; 2 Van Duyne Court,
Towaco, NJ 07082 (US). **KIM, Yong-Kil**; 109-601 Sejong
Apt., Jeonmin-dong, Yusung-gu, Daejeon 305-728 (KR).
YOO, Jin-Uk; 109-206 Sejong Apt., Jeonmin-dong,
Yusung-gu, Daejeon 305-728 (KR). **PAEK, Eun-Ah**;
114-605 Sammury Apt., Dunsan-dong, Seo-gu, Daejeon
302-120 (KR). **PARK, Chun-Eung**; 205-1104 Sunbi-maul
Apt., Songchon-dong 444, Daeduk-gu, Daejeon 306-776
(KR). **SEO, Sung-Yong**; 202-1406 Songgang-maul Apt.,
Songgang-dong, Yusung-gu, Daejeon 305-503 (KR).
CHUNG, Coo-Min; 105-405 Sangroksu Apt., Man-
nyun-dong, Seo-gu, Daejeon 302-781 (KR). **HEO, Joon**;

Published:

— with international search report

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

(54) Title: NEW BENZOYL PIPERIDINE COMPOUNDS

(57) Abstract: The present invention concerns racemic or enantiomerically enriched O-carbamoyl, alkoxy, azole or carbonate ben-
zoyl piperidine compounds and pharmaceutically useful salts thereof. The present invention relates to a pharmaceutical composition
comprising an effective amount of racemic or enantiomerically enriched benzoyl piperidine compounds to treat central nervous sys-
tem diseases such as psychosis and cognition disorder and a method of treating central nervous system diseases in a mammal. Also,
the present invention is concerned with a process for preparing the same.

WO 2004/018423 A1