



(51) International Patent Classification:

C07D 403/06 (2006.01) *A61P 25/22* (2006.01)
A61K 31/506 (2006.01) *A61P 25/00* (2006.01)
A61K 31/505 (2006.01)

(21) International Application Number:

PCT/US2014/021426

(22) International Filing Date:

6 March 2014 (06.03.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/786,288 14 March 2013 (14.03.2013) US

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(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(54) Title: SUBSTITUTED PYRIDINE AND PYRAZINE COMPOUNDS AS PDE4 INHIBITORS

(57) Abstract: The invention provides a chemical entity of Formula (I), and compositions comprising such chemical entities; methods of making them; and their use in a wide range of methods, including metabolic and reaction kinetic studies, detection and imaging techniques, and radioactive treatments; and therapies, including inhibiting PDE4, enhancing neuronal plasticity, treating neurological disorders, providing neuroprotection, treating a cognitive impairment associated with a CNS disorder, enhancing the efficiency of cognitive and motor training, providing neurorecovery and neurorehabilitation, enhancing the efficiency of non-human animal training protocols, and treating treating peripheral disorders, including inflammatory and renal disorders.

