

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
26 March 2020 (26.03.2020)



(10) International Publication Number
WO 2020/058945 A1

(51) International Patent Classification:

C07D 231/18 (2006.01) C07D 401/00 (2006.01)
C07D 231/14 (2006.01) C07D 403/00 (2006.01)
C07D 231/12 (2006.01) C07D 413/00 (2006.01)

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).

(21) International Application Number:

PCT/IB2019/058005

Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(22) International Filing Date:

21 September 2019 (21.09.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

201821035741 22 September 2018 (22.09.2018) IN

(71) Applicant: **TORRENT PHARMACEUTICALS**

LIMITED [IN/IN]; Torrent House, Off Ashram Road, Near
Dinesh Hall, Gujarat, Ahmedabad 380 009 (IN).

(72) Inventors: **GUPTA, Ramesh, Chandra**; Torrent Re-

search Centre, Dist. Gandhinagar, Gujarat, Bhat 382 428
(IN). **SINGARAVEL, Mohan**; Torrent Research Centre,
Dist. Gandhinagar, Gujarat, Bhat 382 428 (IN). **CHHIPA,**
Laxmikant; Torrent Research Centre, Dist Gandhinagar,
Gujarat, Bhat 382 428 (IN). **KASUNDRA, Ashok**; Torrent
Research Centre, Dist. Gandhinagar, Gujarat, Bhat 382 428
(IN).

(74) Agent: **MAJUMDAR, Subhatosh** et al.; S. Majumdar

& Co., 5 Harish Mukherjee Road, State of West Bengal,
Kolkata 700 025 (IN).

(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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, SZ, TJ,
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,

(54) Title: METHODS OF PRODUCING PYRAZOLE COMPOUNDS

(57) Abstract: The present invention is directed to methods of producing substituted pyrazole based compounds through novel intermediates and unique processes for preparing such intermediates which enables synthesis of final product through commercially viable route of synthesis. The present invention is also directed to novel methods of producing substituted pyrazole based thyroid like compounds, and solid forms of 3-{4-[(7-hydroxy-6-methyl-indan-4-yl)methyl]-3,5-dimethyl-1H-pyrazol-1-yl}-propanoic acid, its pharmaceutical compositions, and methods of preparation thereof.



WO 2020/058945 A1