

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 May 2023 (04.05.2023)



(10) International Publication Number
WO 2023/072908 A1

(51) International Patent Classification:

C07C 229/26 (2006.01) C07C 57/58 (2006.01)
C07C 57/30 (2006.01) C07C 59/64 (2006.01)
C07C 229/28 (2006.01) C07C 59/68 (2006.01)
A61P 29/00 (2006.01)

(21) International Application Number:

PCT/EP2022/079728

(22) International Filing Date:

25 October 2022 (25.10.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

21204515.7 25 October 2021 (25.10.2021) EP

(71) Applicant: **DOMPE' FARMACEUTICI SPA** [IT/IT];
VIA SANTA LUCIA 6, 20121 MILANO (IT).

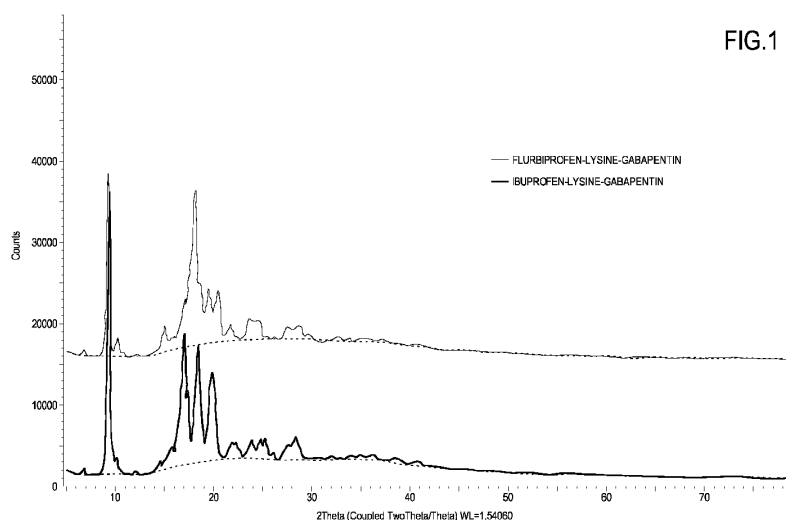
(72) Inventors: **ARAMINI, Andrea**; C/O DOMPE' FARMA-
CEUTICI SPA, Via Campo di Pile, snc, 67100 L'Aquila
(IT). **BIANCHINI, Gianluca**; C/O DOMPE' FARMA-
CEUTICI SPA, Via Campo di Pile, snc, 67100 L'Aquila

(IT). **LILLINI, Samuele**; c/o Dompé Farmaceutici Spa, Via
Pietro Castellino, 111, 80131 Napoli (IT). **TOMASSETTI,
Mara**; c/o Dompé Farmaceutici Spa, Via Pietro Castelli-
no, 111, 80131 Napoli (IT). **BRANDOLINI, Laura**; c/o
Dompé farmaceutici Spa, Via Campo di Pile, snc, 67100
L'Aquila (IT).

(74) Agent: **MAURI, Elisabetta Maria Ester**; C/O DOMPE'
FARMACEUTICI SPA, VIA SANTA LUCIA 6, 20121
MILANO (IT).

(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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE,
KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU,
LY, MA, MD, 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, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(54) Title: CO-CRYSTALS OF NON-STEROIDAL ANTI-INFLAMMATORY DRUGS, LYSINE AND GABAPENTIN, PHARMA-
CEUTICAL COMPOSITIONS AND THEIR MEDICAL USE



(57) Abstract: The present invention relates to new co-crystals of non-steroidal anti-inflammatory drugs (NSAIDs) belonging to the class of phenylpropionic or phenylacetic acid derivatives, Lysine and Gabapentin, to their pharmaceutical compositions and to their use in the prevention, reduction or treatment of pain and/or inflammation.

[Continued on next page]

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, 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, ME, 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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*