

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
06 July 2023 (06.07.2023)



(10) International Publication Number
WO 2023/126563 A1

(51) International Patent Classification:

C10G 3/00 (2006.01) *B01J 35/10* (2006.01)
C10G 47/16 (2006.01) *B01J 29/06* (2006.01)
B01J 29/70 (2006.01)

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.

(21) International Application Number:

PCT/FI2022/050767

(22) International Filing Date:

21 November 2022 (21.11.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

20216357 27 December 2021 (27.12.2021) FI

(71) Applicant: NESTE OYJ [FI/FI]; Keilaranta 21, 02150 Espoo (FI).

(72) Inventors: JAMIESON, John; c/o Neste Oyj/IPR POB 310, 06101 Porvoo (FI). TIHTTA, Marja; c/o Neste Oyj/IPR POB 310, 06101 Porvoo (FI). MÄKELÄ, Eveliina; c/o Neste Oyj/IPR POB 310, 06101 Porvoo (FI). ALBERSBERGER, Sylvia; c/o Neste Oyj/IPR, POB 310, 06101 Porvoo (FI).

(74) Agent: FINNPATENT OY; Smart Chemistry Park, Raisio 55, 21200 Raisio (FI).

(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,

(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

(54) Title: A METHOD FOR PRODUCING RENEWABLE C3-C8 HYDROCARBONS

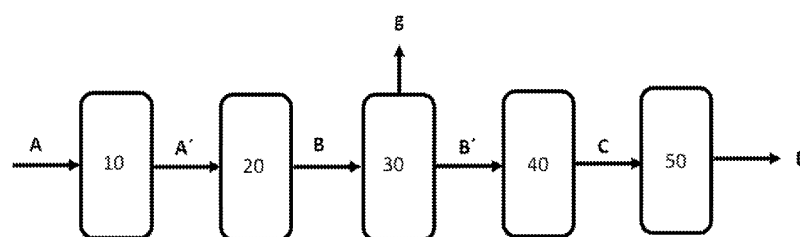


Figure 2

(57) Abstract: The present invention relates to a method for producing renewable C3-C8 hydrocarbons D from renewable feedstock A, in particular to methods comprising separate hydrodeoxygenation (20) hydrocracking (40) steps, wherein the hydrocracking is performed using metal impregnated mesoporous molecular sieves embedded with ZSM-23 zeolite or Beta zeolite as catalyst.

WO 2023/126563 A1