



(51) International Patent Classification:

C10G 3/00 (2006.01) **C10L 1/02** (2006.01)
B01J 21/02 (2006.01) **C07C 2/06** (2006.01)
B01J 21/10 (2006.01) **C07C 29/141** (2006.01)
B01J 23/06 (2006.01) **C07C 29/38** (2006.01)
B01J 23/10 (2006.01) **C07C 45/50** (2006.01)
C07C 1/20 (2006.01) **C07C 47/02** (2006.01)
C07C 5/03 (2006.01) **C10G 45/02** (2006.01)
C07C 29/145 (2006.01) **C10G 45/32** (2006.01)
C07C 29/60 (2006.01) **C10G 50/00** (2006.01)
C07C 47/06 (2006.01)

(21) International Application Number:

PCT/SE2022/050676

(22) International Filing Date:

04 July 2022 (04.07.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

21194166.1	31 August 2021 (31.08.2021)	EP
2151091-2	31 August 2021 (31.08.2021)	SE

(71) Applicant: **SWEDISH BIOFUELS AB** [SE/SE]; Box 12276, 102 27 STOCKHOLM (SE).(72) Inventor: **GOLUBKOV, Igor**; Fjällvägen 3b, 181 31 LIDINGÖ (SE).(74) Agent: **BRANN AB**; Box 3690, 103 59 STOCKHOLM (SE).

(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, 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, IQ, IR, IS, IT, JM, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, TZ,

(54) Title: METHOD FOR PRODUCING MOTOR FUEL FROM ETHANOL

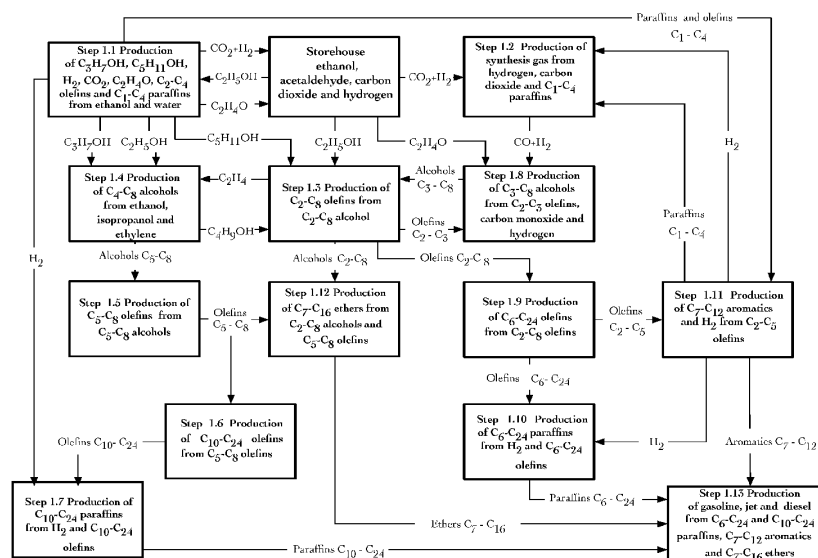


Fig.1

(57) Abstract: A method is for producing motor fuel, and more particularly gasoline, kerosene, and diesel, from ethanol is disclosed. The ethanol is suitably obtained from a feedstock of mainly plant origin. In addition, intermediate products and by-products from the inventive motor fuel synthesis, e.g. alcohols, aldehydes, ketones, ethers, olefins, paraffins, and aromatic compounds can be obtained using the method.

[Continued on next page]

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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*