

(51) International Patent Classification:
C07C 51/41 (2006.01) C07C 53/128 (2006.01)(21) International Application Number:
PCT/US2023/067038(22) International Filing Date:
16 May 2023 (16.05.2023)

(25) Filing Language: English

(26) Publication Language: English

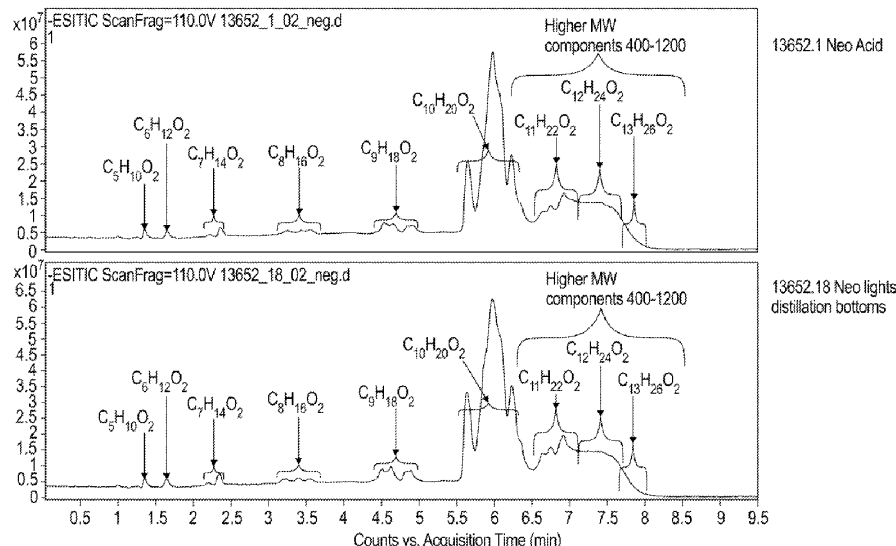
(30) Priority Data:
63/364,747 16 May 2022 (16.05.2022) US(71) Applicant: HERITAGE RESEARCH GROUP, LLC
[US/US]; 6320 Intech Way, Indianapolis, IN 46278 (US).(72) Inventor: POLAND, Ross; 6320 Intech Way, Indianapolis,
IN 46278 (US).(74) Agent: GARDLIK, Matthew, M. et al.; Woodard,
Emhardt, Henry, Reeves & Wagner, LLP, 111 Monument
Circle, Suite 3700, Indianapolis, IN 46204 (US).(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, MU, 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, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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,(54) Title: UNREFINED NEODECANOIC ACID SOURCE AS A RAW MATERIAL FOR H₂S SCAVENGING METAL CAR-
BOXYLATE

FIG. 1

(57) Abstract: The present disclosure includes a process for isolating the carboxylic acids portion of a material stream and reacting it with a metal source to product a blend of metal carboxylate species which are anticipated to be effective H₂S scavenging chemicals. In one embodiment, an "unrefined" or minimally refined acid stream in the production of a metal carboxylate-based H₂S scavenger, which is very attractive to use because the resultant metal carboxylate product will have essentially identical hydrogen sulfide scavenging capabilities as an analogous "pure" metal carboxylates while retaining the requisite oil solubility and stability.

[Continued on next page]



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).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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))*