



(51) International Patent Classification:

C09K 8/58 (2006.01) *C02F 1/28* (2006.01)
B01D 17/04 (2006.01)

Published:

— with international search report (Art. 21(3))

(21) International Application Number:

PCT/US2018/034370

(22) International Filing Date:

24 May 2018 (24.05.2018)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/518,910 13 June 2017 (13.06.2017) US

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(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, 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, 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).

(54) Title: USE OF COMPOSITE MEDIA FOR TREATMENT OF PRODUCED WATER FROM CHEMICAL ENHANCED OIL RECOVERY

(57) Abstract: Systems and methods for treating a stream (12) from a chemical enhanced oil recovery (CEOR) process are disclosed. The method includes contacting the feed stream (12) with a plurality of media composite particles (20) to remove hydrocarbons from the feed stream (12); and generating a treated stream (40) comprising a reduced amount of the hydrocarbons and at least a majority of the viscosity-enhancing polymer remaining therein relative to the feed stream (12). The feed stream (12) includes the hydrocarbons, a concentration of a viscosity-enhancing polymer of at least about 10 mg/L, and an aqueous fluid. The media composite particles (20) each comprise a mixture of a cellulose-based material and a polymer.

