

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 March 2012 (01.03.2012)

(10) International Publication Number
WO 2012/026844 A1

(51) International Patent Classification:
B09C 1/00 (2006.01) *C09K 17/40* (2006.01)

(74) Common Representative: NEKLYUDOV, Sergey
Alexandrovich; ul. Krasnaya Pozitsiya, 15-52, Kazan,
420073 (RU).

(21) International Application Number:
PCT/RU2011/000085

(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, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, 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.

(22) International Filing Date:
17 February 2011 (17.02.2011)

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:
2010136180 27 August 2010 (27.08.2010) RU

(71) Applicant (for all designated States except US): FEDERALNOE GOSUDARSTVENNOE AVTONOMNOE OBRAZOVATELNOE UCHREZHDENIE VYSSHEGO PROFESSIONALNOGO OBRAZOVANIYA "KAZANSKY (PRIVOLZHSKY) FEDERALNY UNIVERSITET" [RU/RU]; ul. Kremliovskaya, 18, Kazan, 420008 (RU).

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

Published:

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



WO 2012/026844 A1

(54) Title: COMPOSITION FOR PURIFICATION OF SOILS POLLUTED BY OIL AND PETROLEUM PRODUCTS

(57) Abstract: The invention relates to environmental protection, in particular, to purification and remediation of soils and subsoils polluted by oil and petroleum products. The composition for soil clean-up contains non-sterile peat filler, nitrogen and phosphorous fertilizers (at the relationship N:P₂O₅=2,5-10: 1), and also zeolite-clay rock hydrophobized by a cationic surfactant (i.e. halogenide of tetra-substituted ammonium) at the following relationship of ingredients, weight %: Peat filler 98,989-84,79 Nitrogen fertilizer, N 0,01 -0,15 Phosphorous fertilizer, P₂O₅ 0,001 -0,06 Zeolite-clay rock modified by the 1-15 cationic surfactant.