

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

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
9 December 2010 (09.12.2010)

(10) International Publication Number  
**WO 2010/140917 A1**

(51) International Patent Classification:  
*E02D 31/00* (2006.01)

(21) International Application Number:  
PCT/RU2009/000608

(22) International Filing Date:  
10 November 2009 (10.11.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2009121386 4 June 2009 (04.06.2009) RU

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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, 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, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**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))

(54) Title: METHOD OF INCREASING OF SOIL BARRIER FUNCTIONS AGAINST CONTAMINATION BY HYDROCARBONS

(57) Abstract: The invention relates generally to the methods of soil / subsoil and groundwater protection from contamination by oil and petroleum products and particularly, to the methods of creation of protective hydrocarbon-impervious screens (barriers) under construction of oil storages, petroleum pipelines, sludge collectors and others. In a soil / subsoil solid impervious screens are formed which prevent downward migration of hydrophobic contaminants. This result is achieved by inserting into the upper (0-25 cm) soil layer natural mineral and organic sorbents followed by soil wetting up to the field capacity. Hereby the sorbents with high water retention ability are chosen. As mineral sorbents, zeolites, clays, and diatomites, and as organic sorbents peat, cellulose, lignin, sawdust, crushed bark, straw, rubber powder, and biomass of crop and wild plants, are used. The created barrier provides efficient retention of hydrophobic contaminants and does not disturb soil / subsoil water-physical properties.



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