

Search query (1): [SP]: Disposition introduced in a circular vertical drain or in a regular polygonal vertical drain, particularly of a drain in the shape of a pipe with particular geometric characteristics, to be used preferential in embankments constructed on soft lands, with the objective to promote the acceleration of the process of consolidation of the mentioned soft land layers. The model consists in a circular vertical drain (1) confectioned in plastic material, which is lodged inside the mandrill (2), in dimensional relation with the external diameter (3) and internal diameter; the drain (1) properly said establishes with the mandrill (2) a predetermined dimensional relation; the vertical drain (1), preferentially a diameter of 3 cm, can be of circular or regular polygonal section; and the plate of steel (foil) (9), of circular configuration, preferentially in steel sheet cut in stamping, it has a changeable thickness in the standards of use, being that the central area (10) of this foil (9) has the diameter (11) compatible with the vertical drain (1) and it is disposed in the bottom of the mandrill (2), of concentrically way and according to area of diameter (11) compatible with the vertical drain.

Results: 3

Search history

Search [SP]: Disposition introduced in a circular vertical drain or in a regular polygonal vertical drain, particularly of a drain in the shape of a pipe with particular geometric characteristics, to be used preferential in embankments constructed on soft lands, with the objective to promote the acceleration of the process of consolidation of the mentioned soft land layers. The model consists in a circular vertical drain (1) confectioned in plastic material, which is lodged inside the mandrill (2), in dimensional relation with the external diameter (3) and internal diameter; the drain (1) properly said establishes with the mandrill (2) a predetermined dimensional relation; the vertical drain (1), preferentially a diameter of 3 cm, can be of circular or regular polygonal section; and the plate of steel (foil) (9), of circular configuration, preferentially in steel sheet cut in stamping, it has a changeable thickness in the standards of use, being that the central area (10) of this foil (9) has the diameter (11) compatible with the vertical drain (1) and it is disposed in the bottom of the mandrill (2), of concentrically way and according to area of diameter (11) compatible with the vertical drain. (Results 3)

Title: DISPOSITION INTRODUCED IN A CIRCULAR VERTICAL DRAIN OR IN REGULAR POLYGONAL VERTICAL DRAIN

Abstract: Disposition introduced in a circular vertical drain or in a regular polygonal vertical drain, particularly of a drain in the shape of a pipe with particular geometric characteristics, to be used preferential in embankments constructed on soft lands, with the objective to promote the acceleration of the process of consolidation of the mentioned soft land layers. The model consists in a circular vertical drain (1) confectioned in plastic material, which is lodged inside the mandrill (2), in dimensional relation with the external diameter (3) and internal diameter; the drain (1) properly said establishes with the mandrill (2) a predetermined dimensional relation; the vertical drain (1), preferentially a diameter of 3 cm, can be of circular or regular polygonal section; and the plate of steel (foil) (9), of circular configuration, preferentially in steel sheet cut in stamping, it has a changeable thickness in the standards of use, being that the central area (10) of this foil (9) has the diameter (11) compatible with the vertical drain (1) and it is disposed in the bottom of the mandrill (2), of concentrically way and according to area of diameter (11) compatible with the vertical drain.

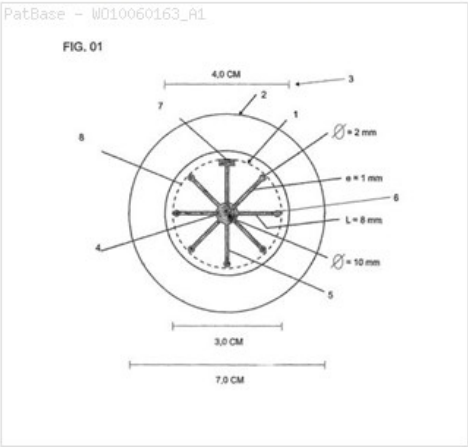
Classifications:

International (IPC 8-9): E02D17/00 E02D17/18 E02D17/20 E02D3/00

E02D3/10 (Advanced/Invention)

CPC: E02D3/10

European: E02D3/10



Family:

Publication number	Publication date	Application number	Application date
BRMU8802670 U2	20100810	BR2008MU02670U	20081126
WO10060163 A1	20100603	WO2009BR00338	20091019

Priority:

BR2008MU02670U 20081126

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: IN-SITU SOIL TREATMENT PROCESS

Abstract: Source: US5037240A The present invention relates to the method of 'in situ' collection and treatment of floating, sinking and dissolved contaminants in a soil environment which involves installation of wick-like drains in at least a portion of the waste site on the down-gradient side of in-ground water flow. The method more particularly involves the installation of pre-fabricated drainage strips in the form of wick drains which are installed vertically or inclined into the normal water table of the contaminated waste site. The depth of the wick drains which include porous and/or slotted channels are installed as deeply into the waste site as the normal in-ground water flow of the pollutants which affects its travel into the lower adjacent aquifer. In accordance with this invention, some of the wick drains which include porous or slotted pipes are employed for the injection of treating chemicals or reagents into the contaminated soil for its treatment in place prior to its normal flow into the aquifer. Some of the drains may be employed for injection of bacteria or microbes, nutrients and/or air into the waste site to obtain underground treatment of the pollutants in place over relatively short or longer periods of time depending upon the extent, chemical nature and concentration of pollutants. The wick drains are preferably comprised of highly-flexible lengthy plastic extrusion, most desirably comprised of polypropylene or similar plastic materials, having maximum water flow capacity along grooves formed longitudinally on both sides of the core. The drain has a woven filter-like jacket on its exterior which is comprised of a strong durable non-woven plastic geo-textile. The jacket serves as a filter to allow passage of ground water into the drain core, while preventing plugging of the filter from the adjacent soil or pluggage of the drain, the jacket serves as an outer skin to maintain cross-sectional shape and hydraulic capacity of the core channels.

Classifications:

International (IPC 8-9): B09C1/00 C02F3/04 E02D3/10

E21B43/08 (Advanced/Invention);

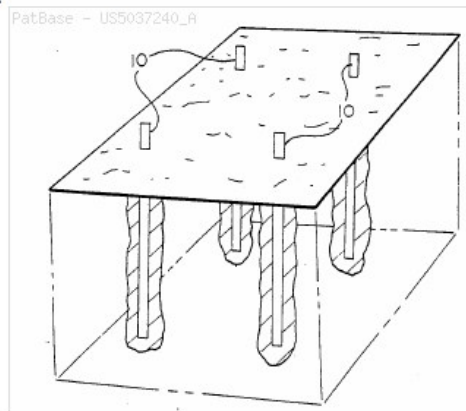
B09C1/00 C02F3/04 E02D3/00 E21B43/02 (Core/Invention)

International (IPC 1-7): B09B1/00

CPC: C02F3/046 B09C1/00 E02D3/10 E21B43/086 Y02W10/15

European: B09C1/00 C02F3/04E E02D3/10 E21B43/08S

US: 405/128 405/128.15 405/129.85 405/263 405/50



Family:

Publication number	Publication date	Application number	Application date
■ US5037240 A	19910806	US19900554443	19900719

Priority:

US19900554443 19900719

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Inventor(s): (std): SHERMAN LYNN D

Title: Vertical drain

Abstract: Source: US4622138A A vertical drain for dewatering saturated, compressible soils. When stored and delivered the drain has a rectangular cross section and can be rolled on reels, but since the drain can be folded longitudinally the drain, when installed in the soil will expose not less than two sides in angle to each other towards the radial flow of water to the drain. Each side consists of a band-formed core (2) with longitudinal and perpendicular channels (4 and 5) shaped by ridges (3) which are cut on certain distances and surrounded by a filter fabric (1).

Classifications:

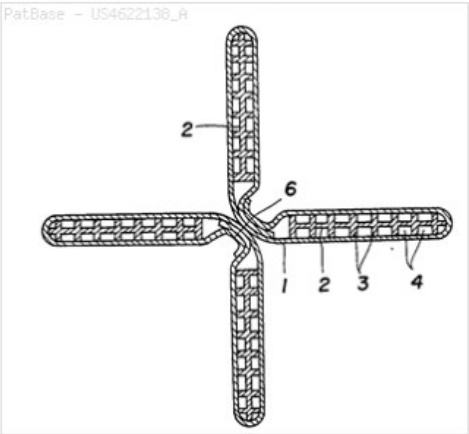
International (IPC 8-9): B01D29/39 E02B11/00 E02D3/10 (Advanced/Invention); B01D29/39 E02B11/00 E02D3/00 (Core/Invention)

International (IPC 1-7): B01D29/04 E02B11/00

CPC: B01D29/395 E02B11/00 E02D3/10

European: B01D29/39A E02B11/00 E02D3/10

US: 210/170 210/170.07 210/486 210/498 405/36 405/43 405/45 405/50



Family:

Publication number	Publication date	Application number	Application date
SE436908 B	19850128	SE19840001322	19840309
SE436908 C	19850509	SE19840001322	19840309
SE8401322 A0	19840309	SE19840001322	19840309
US4622138 A	19861111	US19840678337	19841205

Priority:

SE19840001322 19840309

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