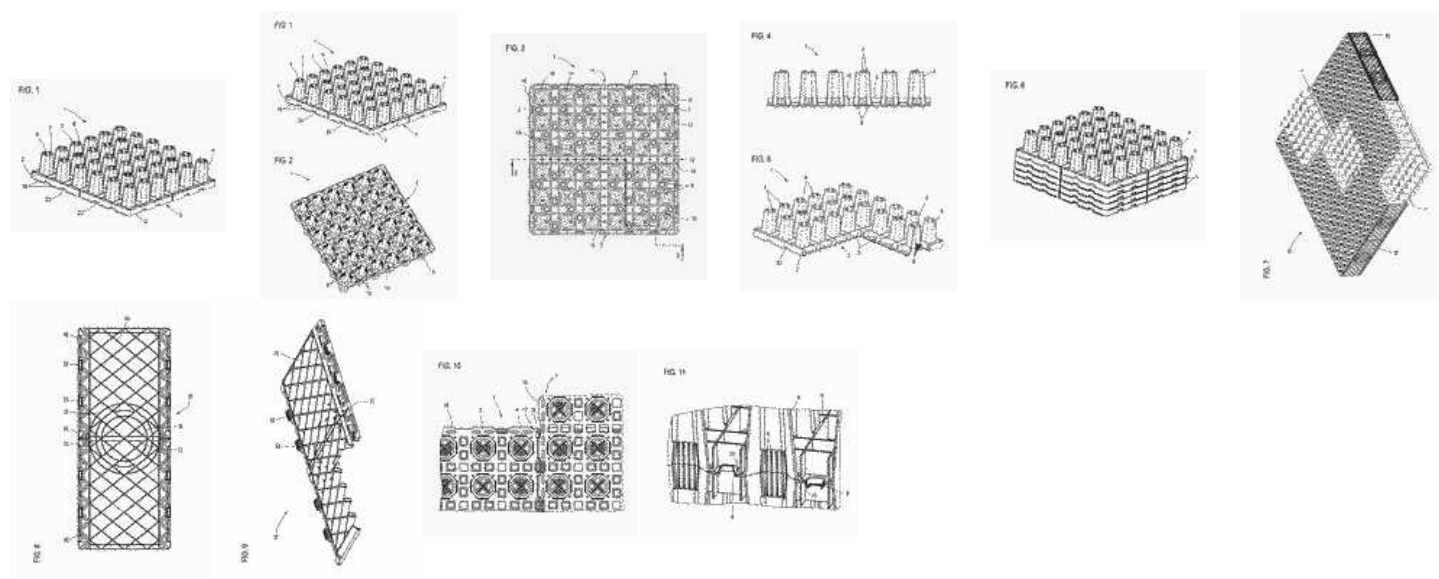


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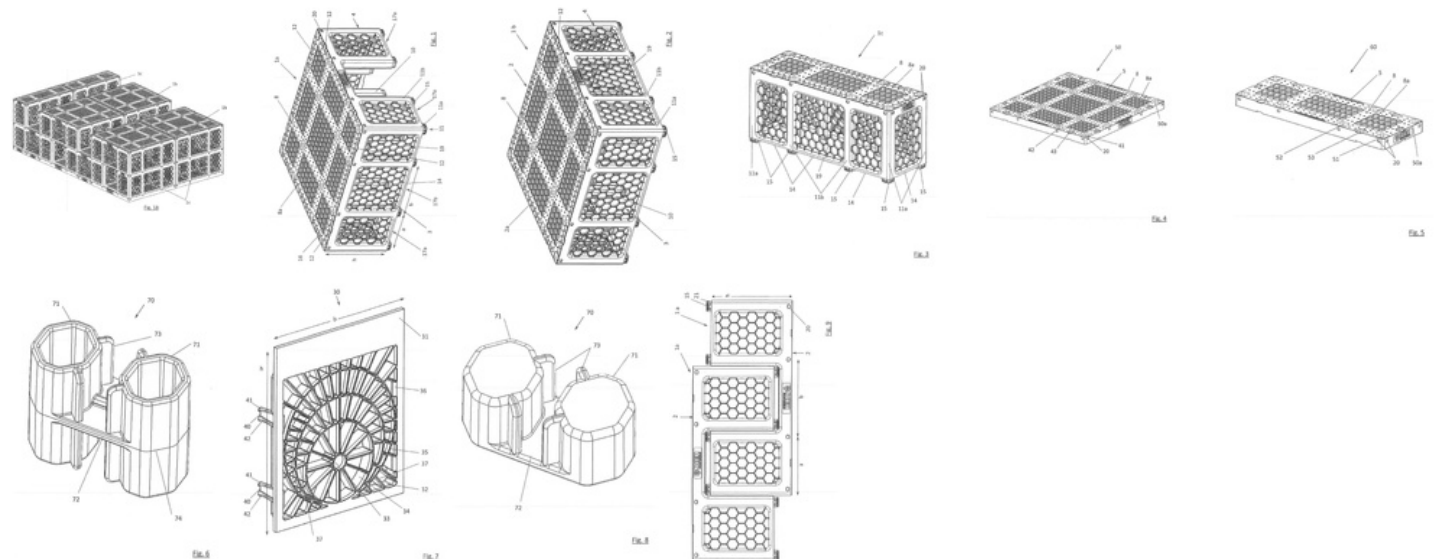
| #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Title                                                                                                        | Publication number | 1st App. date | Applicant/Assignee | 1st Publ. date | Publ. date |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------|---------------|--------------------|----------------|------------|
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Drainage device with several seepage boxes comprising a receptacle for a stabilizing element</a> | WO2010081680       | 2009-01-16    | REHAU*             | 2010-07-22     | 2010-07-22 |
| <p>Disclosed is a seepage box (1) for a drainage system (19), comprising at least one structural member (3) that has an open, three-dimensional, and inherently stable structure, characterized in that at least one receptacle (6), which penetrates the structural member (3) and extends parallel to a direction in which the structural member (3) is loaded, is provided for at least one elongate stabilizing element (7), especially a rod.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                              |                    |               |                    |                |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                              |                    |               |                    |                |            |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Drainage system comprising at least one seepage box</a>                                          | WO2010081681       | 2009-01-16    | REHAU*             | 2010-07-22     | 2010-07-22 |
| <p>Disclosed is a drainage system (2) comprising at least one, in particular several seepage boxes (1) that can be arranged in at least one horizontal position, especially on top of each other. Said drainage system (2) is characterized in that the upper face and the lower face of the seepage box (1) have an especially interlocking profiled section (7, 6). Furthermore, the drainage system (2) comprises at least one reinforcement plate (10, 10') that has a profiled section (11, 12) on both sides. The upper profiled section (11) of the reinforcement plate (10, 10') is designed to interlock with the lower profiled section (6) of a seepage box (1), while the lower profiled section (12) of the reinforcement plate is designed to interlock with the upper profiled section (7) of a seepage box (1).</p>                                                                                                                |                                                                                                              |                    |               |                    |                |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                              |                    |               |                    |                |            |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Seepage module with a stabilizing element, and a seepage system formed therefrom</a>             | AT509873           | 2010-09-24    | IFW MANFRED OTTE*  | 2011-12-15     | 2011-12-15 |
| <p>The invention relates to a seepage module (1, 2) for a seepage system (3), wherein the seepage module (1, 2) is formed by at least one basic body (4, 5) with outer walls (6 to 11) delimiting the same. Some of the outer walls (6 to 11) have, in parts, a liquid-permeable lattice structure (12). At least one channel (13, 14), with channel walls (15, 16) delimiting it, is formed in the basic body (4, 5), this channel extending between outer walls (6 to 11) of the seepage module (1, 2). The channel (13, 14) contains a stabilizing element (18), which is formed from a mass which, when the channel (13, 14) is being filled, is in a first, free-flowing state and, once solidified, is in a second, different, solid state. The stabilizing element (18) is dimensionally stable in the second state. Furthermore, the invention also relates to a seepage system (3) formed from a plurality of seepage modules (1, 2).</p> |                                                                                                              |                    |               |                    |                |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                              |                    |               |                    |                |            |

## 2012-05-03 2012-05-03

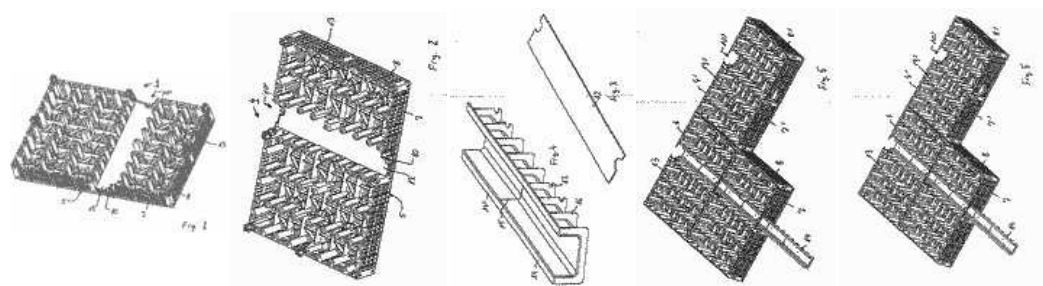


## 2012-03-15 2012-03-15

Fig. 10

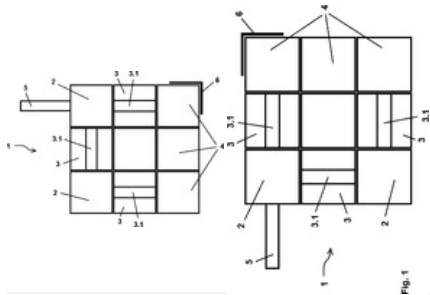
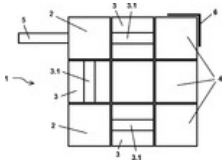


## 2005-09-22 2005-09-22



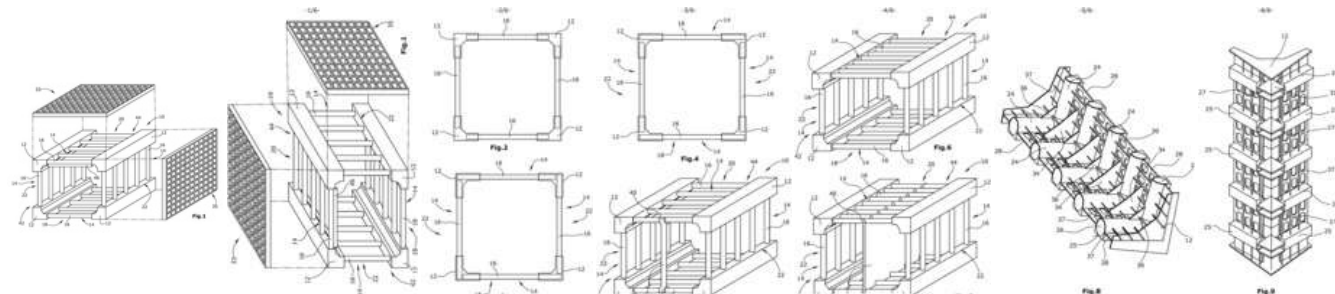
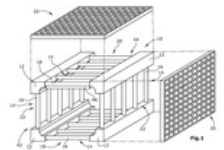


Rigolenanordnung (1) accommodation, storage, delivery and/or seepage of fluid, preferably water, of modules structure, wherein at least one shaft member (2) is provided, in which a supply (5) ends, to the shaft element (2) fluid to switch, and wherein at least two guide elements (3, 3) can be provided, is attached to the shaft element (2) adjacent and fluid from the shaft member (2) may take, and a plurality of memory (4) elements and/or shaft elements (2) is provided, one of which a to each of the at least two vanes (3) adjacent and fluid from the guide (3) member may take, characterized in, that the element (3) guiding channel (3.1) thereto, the baffle (3) substantially linear fully penetrated and the adjacent shaft element (2) and the adjacent element (4) or shaft element (2) is aligned.



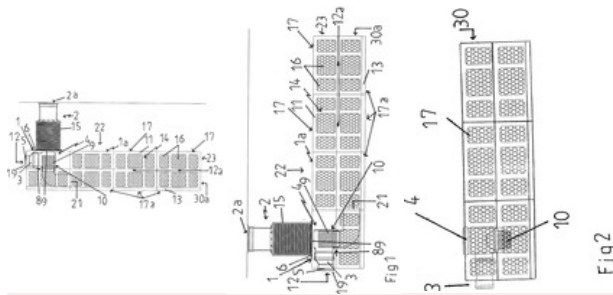
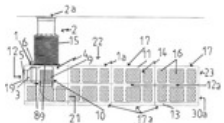
10.
- Device for forming cavities in the ground for water drainage and/or water storage
- DE102016106673
- 2016-04-12
- HEWITECH\*
- 2017-10-12 2017-10-12

The invention relates to a device for forming cavities in the ground for water drainage and/or water storage. Said device comprises a cube- or cuboid-shaped installation body (10), which has a front side (42) and an opposite back side (44), a top side (20) and an opposite bottom side (18), and two opposite lateral sides (22). The front side (42), the back side (44), the top side (20), the bottom side (18), and the lateral sides (22) have strand elements (14) arranged parallel or substantially parallel to each other. In the corner regions of the installation body (10) between the top or bottom side (20, 18) and one of the lateral sides (22), corner connecting elements (12) for the insertion connection of the strand elements (14) of the top side (20) or of the bottom side (18) to the strand elements of the lateral side (22) are arranged.



11.
- Cup-shaped configuration which can be easily handled and using the same filter transfer leaching
- DE202012005674
- 2012-05-31
- MAINCOR ANGER\*
- 2012-09-27 2012-09-27

The invention relates to a simple construction of an easy to use less maintenance cost of leaching seepage port and, in particular for surface water, which filter means for separating the contaminants leaching box for receiving a liquid containing soil particles and liquid is suitable as a filtrate, comprising a housing, said housing cover plate and at least one sidewall, preferably two or four having sidewalls, the sidewalls of the panel are formed above, the top and/or side walls are permeable, at least one of the sidewalls having an aperture, the opening adapted to receive a supply tube, the filter is adapted to receive an interior of the housing, wherein the filter device with the inlet for introducing fluid into the strainer can be connected via the supply pipe and the use of the aquifer restraint assembly, and/or percolation of liquids for storage, preferably surface water, rainwater, or the like.



12.

Drainage cell modular raintank and water storage system

CA2581624

2007-03-14

LARACH OSCAR

2007-09-14 2007-09-14

A modular raintank and water storage system are described. A modular raintank comprises a plurality of interconnected external sidewall modules. The sidewall modules have a plurality of openings which allow water to freely flow into and out of the modular raintank. The water storage system comprises a plurality of interconnected modular raintanks. The adjacent modular raintanks of the water storage system can share a sidewall, and can be stacked on top of each other and connected in a side-by-side pattern. The shared sidewall comprises a plurality of locking tip members arranged in rows to facilitate the attachment of additional modular plates of adjacent raintanks and a plurality of U-shaped openings to facilitate visual inspection of the tank while underground.

FIG. 1: Top view of a modular raintank module showing a grid of openings. FIG. 2: Side view of a modular raintank module showing the arrangement of locking tip members. FIG. 3: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 4: Detail view of a locking tip member. FIG. 5: Detail view of a locking tip member. FIG. 6: Detail view of a locking tip member. FIG. 7: Detail view of a locking tip member. FIG. 8: Detail view of a locking tip member. FIG. 9: Detail view of a locking tip member. FIG. 10A: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10B: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10C: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10D: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10E: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10F: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10G: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10H: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10I: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10J: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10K: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10L: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10M: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10N: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10O: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10P: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10Q: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10R: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10S: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10T: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10U: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10V: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10W: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10X: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10Y: Perspective view of a modular raintank module showing the arrangement of locking tip members. FIG. 10Z: Perspective view of a modular raintank module showing the arrangement of locking tip members.

13.

Infiltration block

EP1607535

2004-06-18

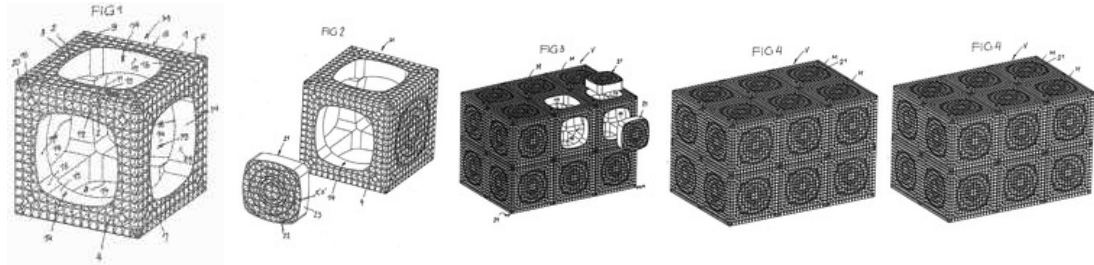
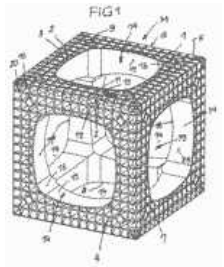
VERNON FIN BASE FADING WAVIN\*

2005-12-21 2005-12-21

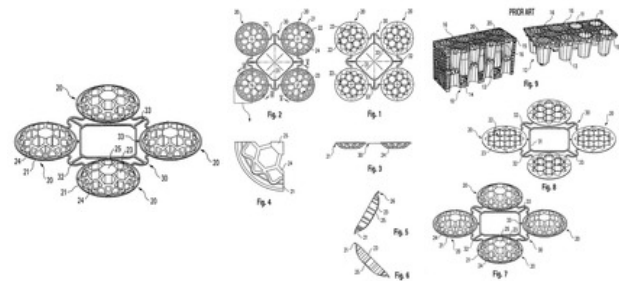
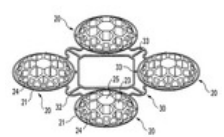
The present invention concerns a plastics infiltration block adapted for combining multiple infiltration blocks into an underground construction for infiltration or attenuation purposes. The infiltration block has an essentially rectangular parallelepipedal body having pairs of opposed first, second and third faces. Through the infiltration block at least one inspection channel extends, with inspection channel openings positioned in opposed third faces of the infiltration block. The area of each inspection channel opening is at least 10% of the size of the area of the third face in which it is positioned. The infiltration block comprises a single infiltration block element or multiple coupled infiltration block elements, wherein one or more inspection channel sections of the one or more inspection channels are delimited by a single or multiple coupled infiltration block elements. At least one infiltration block element is of a one-part plastic construction having an essentially rectangular parallelepipedal body with side body parts essentially on opposite sides of the one or more inspection channel sections, and with at least one intermediate body part situated between the side body parts. Side body parts form the first faces of the infiltration block and intermediate body parts form second faces of the infiltration block. The side body parts and one or more intermediate body parts of said one-part plastic construction infiltration block element are essentially formed by a grid of duct walls, which duct walls form essentially parallel ducts extending between each first face and the one or more inspection channels of the infiltration block element, and between each second face and the one or more inspection channels of the infiltration block element. The total area covered by the one or more inspection channel openings is at least half of the size of the area of the third face of the infiltration block in which this one or more inspection channel openings are positioned.

FIG. 1: Perspective view of an infiltration block element. FIG. 2: Perspective view of an infiltration block element. FIG. 3: Perspective view of an infiltration block element. FIG. 4: Perspective view of an infiltration block element. FIG. 5: Perspective view of an infiltration block element. FIG. 6: Perspective view of an infiltration block element. FIG. 7: Perspective view of an infiltration block element. FIG. 8: Perspective view of an infiltration block element. FIG. 9: Perspective view of an infiltration block element. FIG. 10: Perspective view of an infiltration block element. FIG. 11: Perspective view of an infiltration block element. FIG. 12: Perspective view of an infiltration block element. FIG. 13: Perspective view of an infiltration block element. FIG. 14: Perspective view of an infiltration block element. FIG. 15: Perspective view of an infiltration block element. FIG. 16: Perspective view of an infiltration block element. FIG. 17: Perspective view of an infiltration block element. FIG. 18: Perspective view of an infiltration block element. FIG. 19: Perspective view of an infiltration block element. FIG. 20: Perspective view of an infiltration block element. FIG. 21: Perspective view of an infiltration block element. FIG. 22: Perspective view of an infiltration block element. FIG. 23: Perspective view of an infiltration block element. FIG. 24: Perspective view of an infiltration block element. FIG. 25: Perspective view of an infiltration block element. FIG. 26: Perspective view of an infiltration block element. FIG. 27: Perspective view of an infiltration block element. FIG. 28: Perspective view of an infiltration block element. FIG. 29: Perspective view of an infiltration block element. FIG. 30: Perspective view of an infiltration block element. FIG. 31: Perspective view of an infiltration block element. FIG. 32: Perspective view of an infiltration block element. FIG. 33: Perspective view of an infiltration block element. FIG. 34: Perspective view of an infiltration block element. FIG. 35: Perspective view of an infiltration block element. FIG. 36: Perspective view of an infiltration block element. FIG. 37: Perspective view of an infiltration block element. FIG. 38: Perspective view of an infiltration block element. FIG. 39: Perspective view of an infiltration block element. FIG. 40: Perspective view of an infiltration block element. FIG. 41: Perspective view of an infiltration block element. FIG. 42: Perspective view of an infiltration block element. FIG. 43: Perspective view of an infiltration block element. FIG. 44: Perspective view of an infiltration block element. FIG. 45: Perspective view of an infiltration block element. FIG. 46: Perspective view of an infiltration block element. FIG. 47: Perspective view of an infiltration block element. FIG. 48: Perspective view of an infiltration block element. FIG. 49: Perspective view of an infiltration block element. FIG. 50: Perspective view of an infiltration block element. FIG. 51: Perspective view of an infiltration block element. FIG. 52: Perspective view of an infiltration block element. FIG. 53: Perspective view of an infiltration block element. FIG. 54: Perspective view of an infiltration block element. FIG. 55: Perspective view of an infiltration block element. FIG. 56: Perspective view of an infiltration block element. FIG. 57: Perspective view of an infiltration block element. FIG. 58: Perspective view of an infiltration block element. FIG. 59: Perspective view of an infiltration block element. FIG. 60: Perspective view of an infiltration block element. FIG. 61: Perspective view of an infiltration block element. FIG. 62: Perspective view of an infiltration block element. FIG. 63: Perspective view of an infiltration block element. FIG. 64: Perspective view of an infiltration block element. FIG. 65: Perspective view of an infiltration block element. FIG. 66: Perspective view of an infiltration block element. FIG. 67: Perspective view of an infiltration block element. FIG. 68: Perspective view of an infiltration block element. FIG. 69: Perspective view of an infiltration block element. FIG. 70: Perspective view of an infiltration block element. FIG. 71: Perspective view of an infiltration block element. FIG. 72: Perspective view of an infiltration block element. FIG. 73: Perspective view of an infiltration block element. FIG. 74: Perspective view of an infiltration block element. FIG. 75: Perspective view of an infiltration block element. FIG. 76: Perspective view of an infiltration block element. FIG. 77: Perspective view of an infiltration block element. FIG. 78: Perspective view of an infiltration block element. FIG. 79: Perspective view of an infiltration block element. FIG. 80: Perspective view of an infiltration block element. FIG. 81: Perspective view of an infiltration block element. FIG. 82: Perspective view of an infiltration block element. FIG. 83: Perspective view of an infiltration block element. FIG. 84: Perspective view of an infiltration block element. FIG. 85: Perspective view of an infiltration block element. FIG. 86: Perspective view of an infiltration block element. FIG. 87: Perspective view of an infiltration block element. FIG. 88: Perspective view of an infiltration block element. FIG. 89: Perspective view of an infiltration block element. FIG. 90: Perspective view of an infiltration block element. FIG. 91: Perspective view of an infiltration block element. FIG. 92: Perspective view of an infiltration block element. FIG. 93: Perspective view of an infiltration block element. FIG. 94: Perspective view of an infiltration block element. FIG. 95: Perspective view of an infiltration block element. FIG. 96: Perspective view of an infiltration block element. FIG. 97: Perspective view of an infiltration block element. FIG. 98: Perspective view of an infiltration block element. FIG. 99: Perspective view of an infiltration block element. FIG. 100: Perspective view of an infiltration block element.

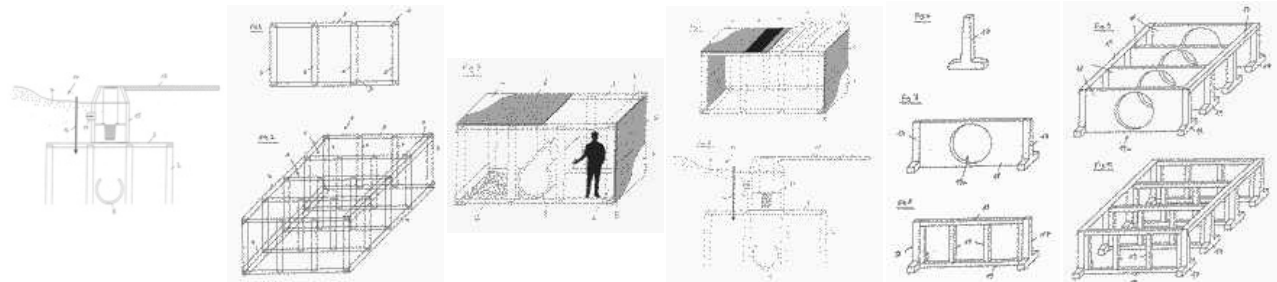
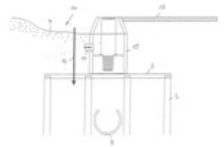
The French drain module has a base body (G) in the form of a cube. Its six outer walls (1, 4, 5, 6, 7, 8) each have an insertion aperture (14) leading to an inner chamber (19) with the aperture taking up 30-60% of the wall surface. The chamber contains no supporting posts or ties. There are insertion plates for selective insertion.



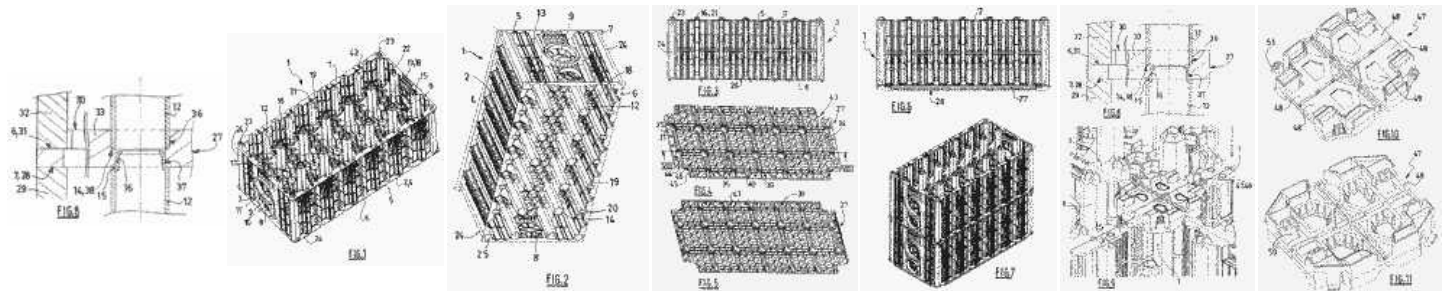
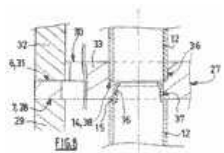
The invention relates to a cover element for covering an opening in an, in particular, horizontal surface of a drain trench body, with an edge region (21) which is designed for supporting the cover element (20) on the drain trench body and with a covering region (22) which comprises a lattice or perforated structure with supporting elements (23). It is characterized in that, starting from the edge region (21), the supporting elements (23) have in the direction of regions remote from the edge a thickness which increases in the vertical direction in such a way that the cover element (20) has substantially a planoconvex outer contour.



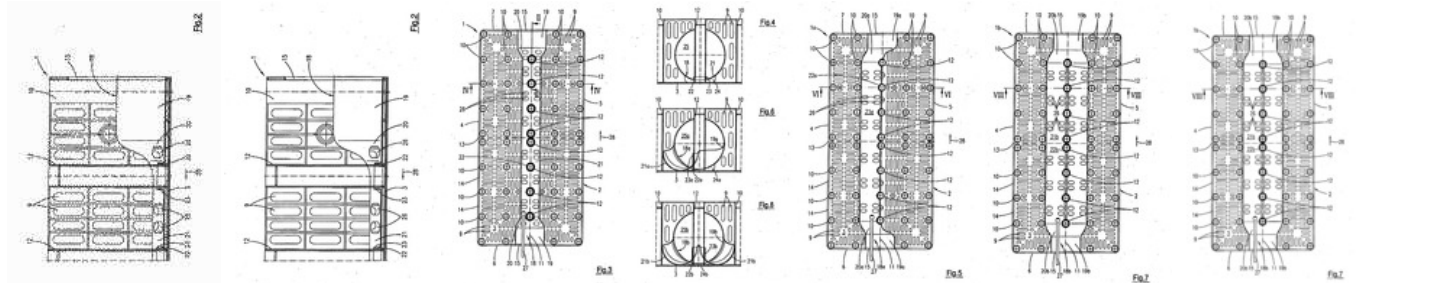
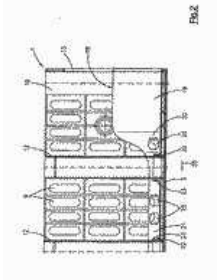
The ditch has a ditch body comprising supporting units, which are connected with each other. Each supporting unit is a frame unit (1), which comprises profiles (2, 3) that are connected together, where the profiles are designed in a bar shaped manner. A covering unit is attached on a section of the ditch body, where the covering unit is a gutter plate. A geo textile material is applied on the gutter plate. A pipe section is arranged in an inner side of the body. The profiles are made of plastic i.e. thermosetting plastic.



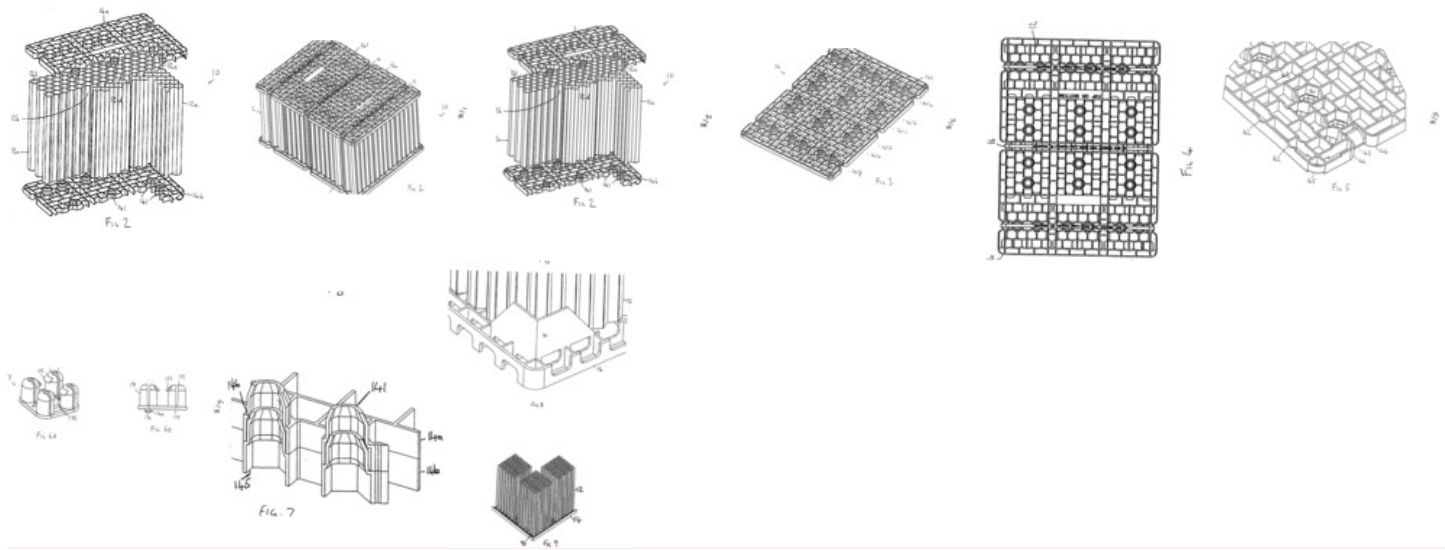
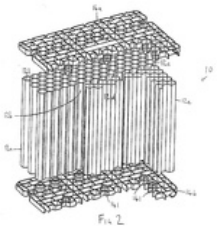
The system has a honeycomb structured reinforcing plate (27) placed between water recovery cells (29, 32), where the plate includes a surface (28) supporting the cell (29) and a surface (30) forming a supporting zone (31) to support the cell (32). The plate has a housing (37) opened at a level of the surface (28) and cooperating with an end (16) of a column (12) of the cell (29). The surface (30) has a projecting zone (33) in which a housing (36) is mounted, where the housing (36) cooperates with an end (14) of the column of the cell (32).

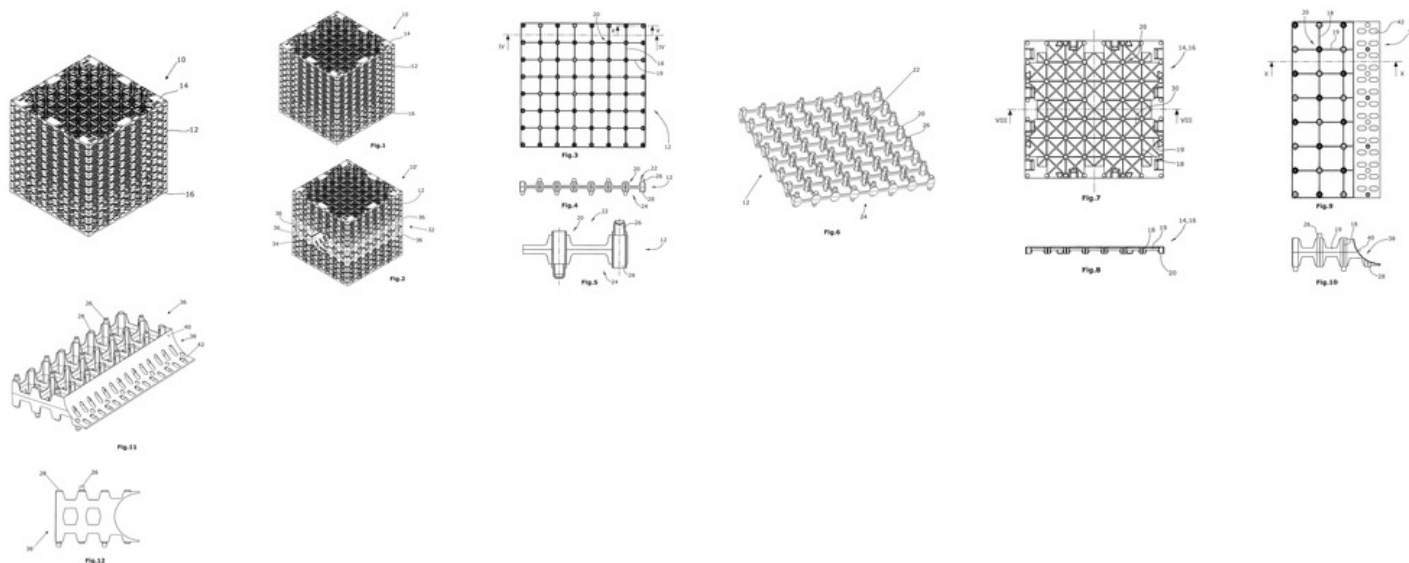


The seepage block has a cuboid housing (2) consisting of a baseplate (3), two short side walls (e.g. 6), two long side walls (4, 5), a cover plate (8), support columns (10), at least two inspection apertures (15), an inspection channel (25) connecting them, and a guide gutter (18), open at the top, for the insertion of an inspection probe through the channel.

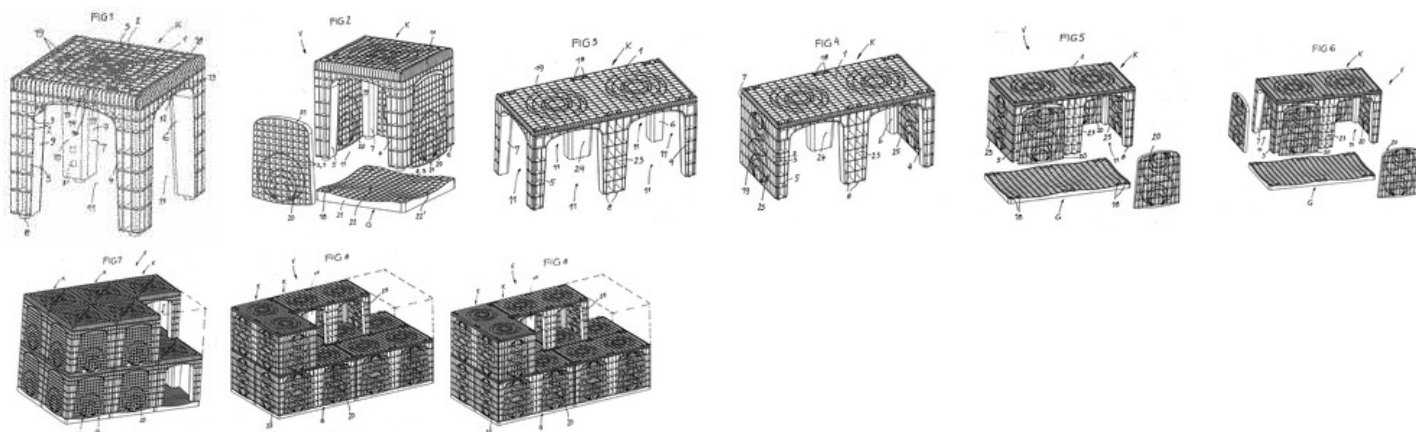


A water drainage system 10 having a water storage unit 12 comprising a plurality of adjoining vertical cells 121, wherein the water storage unit is provided on a lattice panel 14b that allows horizontal flow of the water between adjoining vertical cells. Preferably, the vertical cells can form a hexagonal structure, which provides a strong storage unit. The lattice panel 14b also provides additional stiffness to the water drainage system and reinforces the storage unit against lateral forces. The lattice panel has at least one spigot 141 shaped for insertion into a vertical cell so as to position and hold the water storage unit on the lattice panel. Preferably, two lattice panels 14a, 14b are provided to sandwich the water storage unit, each including rounded shoulders for use with fastening straps (16, Fig 1).

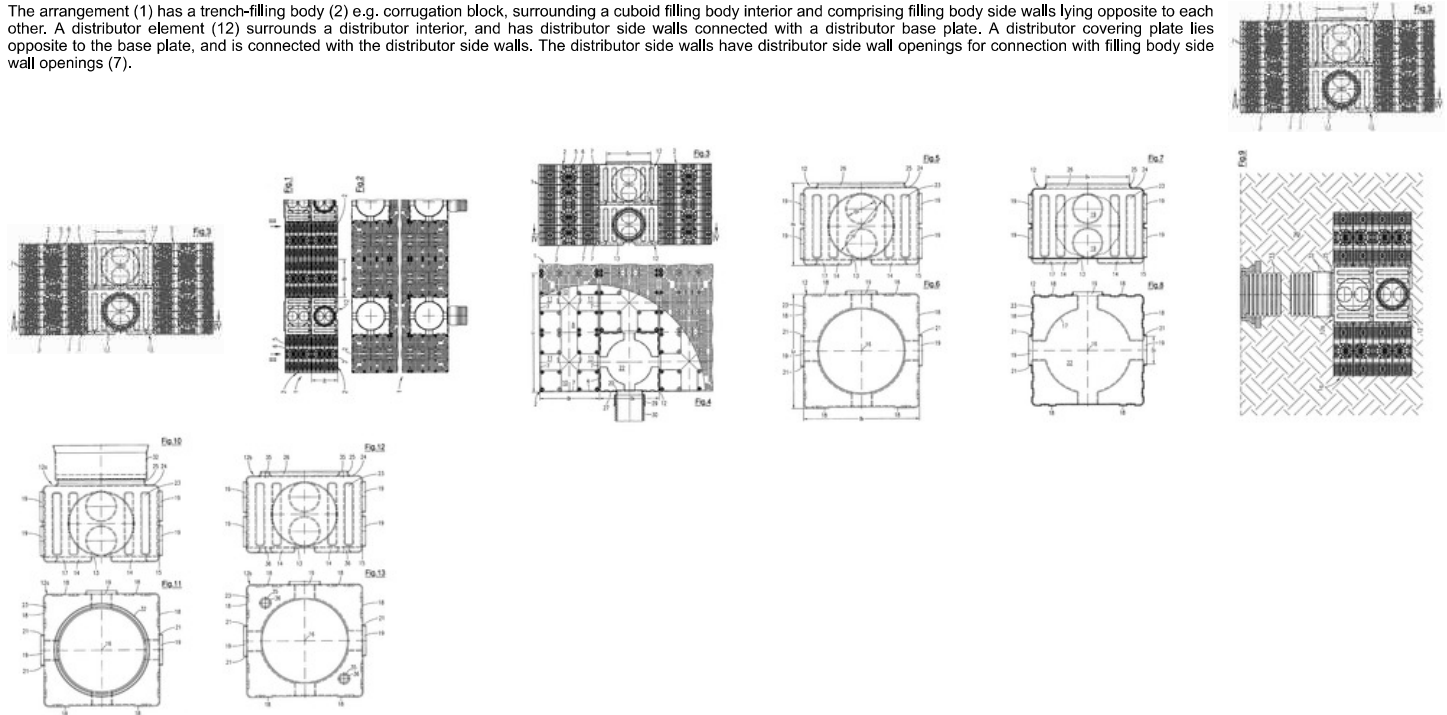




|     |                           |           |            |                |            |            |
|-----|---------------------------|-----------|------------|----------------|------------|------------|
| 21. | Plastic infiltration body | EP1932975 | 2006-12-15 | GRAF PLASTICS* | 2008-06-18 | 2008-06-18 |
|-----|---------------------------|-----------|------------|----------------|------------|------------|



The arrangement (1) has a trench-filling body (2) e.g. corrugation block, surrounding a cuboid filling body interior and comprising filling body side walls lying opposite to each other. A distributor element (12) surrounds a distributor interior, and has distributor side walls connected with a distributor base plate. A distributor covering plate lies opposite to the base plate, and is connected with the distributor side walls. The distributor side walls have distributor side wall openings for connection with filling body side wall openings (7).



23. Seepage module, and seepage system formed therewith

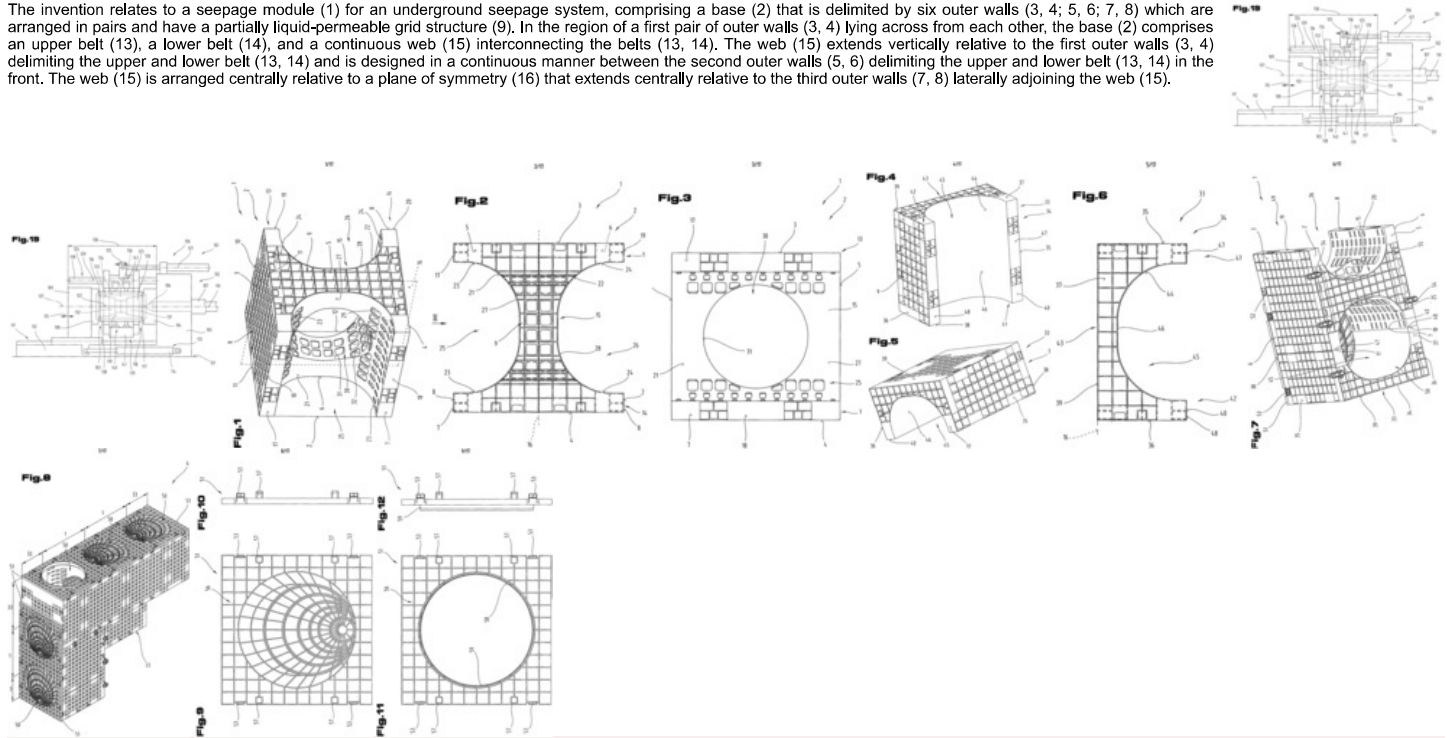
AT508366

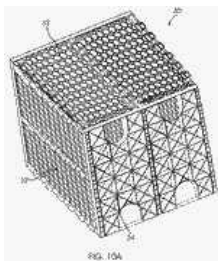
2009-11-19

IFW MANFRED OTTE  
IFW MANFRED OTTO\*

2011-01-15 2011-01-15

The invention relates to a seepage module (1) for an underground seepage system, comprising a base (2) that is delimited by six outer walls (3, 4; 5, 6; 7, 8) which are arranged in pairs and have a partially liquid-permeable grid structure (9). In the region of a first pair of outer walls (3, 4) lying across from each other, the base (2) comprises an upper belt (13), a lower belt (14), and a continuous web (15) interconnecting the belts (13, 14). The web (15) extends vertically relative to the first outer walls (3, 4) delimiting the upper and lower belt (13, 14) and is designed in a continuous manner between the second outer walls (5, 6) delimiting the upper and lower belt (13, 14) in the front. The web (15) is arranged centrally relative to a plane of symmetry (16) that extends centrally relative to the third outer walls (7, 8) laterally adjoining the web (15).





2005-11-10 2005-11-10



Fig.2