



New connection on: : 28-11-2017 : 16:54:11 - Last disconnection on: : 25-11-2017 : 02:24:57

V 4.0.0.44164(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201714)) (RPM D201714)

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[No database/cluster active] ..fi epodoc

 Database: EPODOC

[EPODOC: SS 1] geocell

Results in EPODOC 215

[SS 2] * and (perfora+ or hole+)

Results in EPODOC 36

[SS 3] * and PD<2014-01-27

Results in EPODOC 9

[SS 4] ..li



1/9 © EPODOC / EPO

PN - [CN103353275](#) A 20131016

PR - CN20131286296 20130709

AP - CN20131286296 20130709

DT - I

PA - UNIV CHANGSHA SCIENCE

TI - Arc-shaped large-measuring-range deformeter for geotechnical reinforcement

AB - The invention discloses an arc-shaped large-measuring-range deformeter for geotechnical reinforcement. The deformeter is fixed between two points of the geotechnical reinforcement via common compression sheets (10) or **geocell** compression sheets (11), the common compression sheets (10) or **geocell** compression sheets (11) are respectively connected with a front slide block (3) and a rear slide block (4) via compression sheet installing screw **holes** (9), each of the front and rear slide blocks is equipped with a hinged support (5), the hinged supports (5) are connected with a reed (6), and a resistance strain gauge (7) is pasted on the reed (6); the front and rear slide blocks can freely slide on parallel guide rails (1); a transparent protective

housing (12) can be mounted outside the deformer to protect the deformer; and when the geotechnical reinforcement deforms, the reed (6) bends, and a strain value of the reed (6) is measured by the resistance strain gauge (7). The arc-shaped large-measuring-range deformer for the geotechnical reinforcement, disclosed by the invention, is large in measuring range, high in accuracy, simple in structure, convenient in operation and reliable in performance.

2/9 © EPODOC / EPO

- PN - [CN202969399U](#) U 20130605
- PR - CN20122721832U 20121224
- AP - CN20122721832U 20121224
- DT - I
- PA - CSCEG STRAIT CONSTRUCTION AND DEV CO LTD
- TI - H-shaped rivet and **geocell** with same
- AB - The utility model relates to an H-shaped rivet and a **geocell** with the same. The **geocell** with the H-shaped rivet is formed by folding **geocell** sheets and connecting the adjacent **geocell** sheets at intervals in a staggered manner through connectors. The connected **geocell** is extended along two lateral extension edges, the **geocell** sheets between the adjacent connectors form single cells, and accordingly a cellular cell is formed. The connectors are H-shaped rivets. Each H-shaped rivet comprises a thick bar, a thin bar and a pair of clamps fixed to the outer ends of the thick bar and the thin bar respectively. The thick bar is provided with a **hole** in inserted fit with the thin bar. The clamps are in slat in shape. The section of the assembly of the thick bar, the thin bar and the clamps is H-shaped.

3/9 © EPODOC / EPO

- PN - [CN202559330U](#) U 20121128
- PR - CN20122142572U 20120408
- AP - CN20122142572U 20120408
- DT - I
- PA - WENLI FAN
- TI - Hot-melting integrated **geocell**
- AB - The utility model discloses a hot-melting integrated **geocell** which comprises adjoining wave-shaped polymer plates. A through **hole** is respectively arranged at a node position of a joint position of every two adjacent polymer plates, a melting material passes through the through **holes**, and connecting blocks are formed on the peripheries of the **holes**. The adjacent plates are connected together through a melting injection method, and the high node-strength integrated **geocell** is formed. The hot-melting integrated **geocell** has higher node strength, plate strength and production efficiency and is an ideal replacing product of the existing common **geocell**.

4/9 © EPODOC / EPO

- PN - [CN102615835](#) A 20120801
- PR - CN2012199270 20120408
- AP - CN2012199270 20120408

DT - I

CT - || STSE (A)
[CN202559330U](#) U 20121128 [R] (WENLI FAN)
[R]
[CN102061688](#) A 20110518 [XY] (YIZHENG JIAHE CIVIL ENGINEERING MATERIALS CO LTD)
[X]
[Y]
[CN2683703Y](#) Y 20050309 [Y] (GAO HONG [CN])
[Y]
[US2006147275](#) A1 20060706 [A] (LIN CHIN-TAI [TW], et al)
[A]
[CN102165118](#) A 20110824 [A] (PRS MEDITERRANEAN LTD)
[A]

PA - WENLI FAN

TI - Method for manufacturing hot-melt integral geocells and **geocell** manufactured by using method

AB - The invention discloses a method for manufacturing hot-melt integral geocells, which comprises the following steps: parallely arranging strip polymer plates, wherein a node is arranged between two adjacent plates, the nodes between the plates in each layer are arranged in a staggered mode, and the position of the node is provided with a through **hole**; then, carrying out melt injection processing on the nodes, wherein an injected molten material passes through the through **holes**, and forms connecting blocks around the through **holes**, so that two adjacent plates are connected together; and finally, carrying out transverse drawing on the plates subjected to superimposition and melt injection processing so as to draw each strip polymer plate into a waved polymer plate, and carrying out butt jointing on the waved polymer plates at the nodes so as to form a 8-shaped **geocell**. According to the invention, through connecting adjacent plates together by way of melt injection, a high-node-strength integral **geocell** is formed, and the integral **geocell** is higher in node strength, plate strength and production efficiency, therefore, the integral **geocell** is an ideal substitute product of current common geocells.

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PN - [CN102061690](#) A 20110518

PR - CN20091222535 20091113

AP - CN20091222535 20091113

DT - I

PA - YIZHENG JIAHE CIVIL ENGINEERING MATERIALS CO LTD

TI - Air permeable **geocell**

AB - The invention relates to an air permeable **geocell**, in particular to an air permeable **geocell** manufactured by propene polymer (PP) material strips. The air permeable **geocell** provided by the invention can make the humidity and temperature of fillings in each **geocell** to be consistent, thereby avoiding inconsistent states of the fillings in local geocells and other geocells. The air permeable **geocell** provided by the invention is formed by twisting and folding the strips and then connecting the adjacent strips at intervals in a staggered mode through connecting buckles; the strips among

the adjacent connecting buckles form a single **geocell** after the connected **geocell** is stretched along the stretching edge at two ends so that the whole air permeable **geocell** is cellular; air permeable **holes** are formed on the strips; and the height of the air permeable **holes** gradually rises from the interior to the exterior on the strips. The air permeable **holes** in the invention adopt the semi-cutting type with the cut-off upper part and the lower part which is not cut off, and the formed **hole** tongues tilt inwards and stretch into the inner side geocells, thereby playing a role in preventing the fillings from flowing out and realizing the communication of the interior of each **geocell**.

6/9 © EPODOC / EPO

PN - [CN102061688](#) A 20110518
 PR - CN20091212994 20091113
 AP - CN20091212994 20091113
 DT - I
 PA - YIZHENG JIAHE CIVIL ENGINEERING MATERIALS CO LTD
 TI - Technique for processing **geocell**
 AB - The invention discloses a technique for processing a **geocell**, and relates to a technique for processing an anticorrosive **geocell**. The technique comprises the following steps of: folding a ground strip, and connecting adjacent folded ground strips in a staggered way at intervals through a plurality of connecting buckles, wherein the connected **geocell** is honeycomb-shaped after being transversely stretched, and the process of connecting the adjacent ground strips in a staggered way at intervals comprises **perforation** of the connecting parts of the adjacent ground strips; and performing mechanical injection processing on the connecting parts of the adjacent ground strips to form a connecting buckle connected with the ground strips to form a whole. The integrated injection connecting buckle is processed at the connecting parts by using an injection molding process. Compared with the prior art, the connecting buckle is anticorrosive; and the operation strength during processing is also greatly reduced, the processing period is shortened, and the processing efficiency is improved. All plastic materials are light and abrasion-resistant, have stable chemical performance, photo-oxidation aging resistance and acid and alkali resistance, and are suitable for high-strength **geocell** products under different soil conditions of soil, deserts and the like.

7/9 © EPODOC / EPO

PN - [CN101705690](#) A 20100512
 PR - CN20091234903 20091120
 AP - CN20091234903 20091120
 DT - I
 PA - YIXING MINGHUI PLASTIC PRODUCT
 TI - Plastic **geocell**
 AB - The invention discloses a plastic **geocell**, which comprises bar plastic cell sheets and connecting clamps, wherein the cell sheets are arranged side by side; the connecting clamps are clamped on connecting parts of the cell sheets and are fixed with rivets; the cell sheets connected together form a grid-shaped three-dimensional cell; each cell unit of the grid-shaped three-dimensional cell is internally provided with a connecting rope; both ends of the connecting rope are connected with the connecting clamps

respectively; and the bar cell sheets are provided with drain **holes**. The plastic **geocell** has the advantages of simple structure, easy manufacturing and low cost. The plastic **geocell** can be convenient for water to flow and drain the water in time, can also prevent soil and sand filled in the **geocell** from shifting, can improve the scouring resistance and the erosion resistance, can improve the stability, prolongs the service life, reduces maintenances and is convenient to popularize and use.

8/9 © EPODOC / EPO

- PN - [CN101463599](#) A 20090624
- PR - CN2009142512 20090116
- AP - CN2009142512 20090116
- DT - I
- PA - UNIV HUNAN [CN]
- TI - Bidirectional reinforcing and water drainage reinforcing means for highway soft soil foundation
- AB - The invention discloses a soft soil foundation two-way reinforcement and drainage reinforcement method for highways. The invention comprises the steps as follows: (1) the site is leveled and the pile positions are set out; (2) the construction is carried out by vibroflotation, hammering method, or vibrating tube sinking method to form a gravel pile; (3) the top of the pile is paved with **Geocell** coarse sand or gravel hardcore, the main composition body thereof is a **Geocell** layer with drain **holes** on the wall, the **Geocell** is filled with compact coarse sand or gravels, and the upper part and the lower part of the **Geocell** are respectively paved with drainage layers. By adopting the **Geocell** coarse sand or gravel hardcore and gravel pile two-way reinforcement and drainage structure, the method can realize a composite action of reinforcement, compaction, replacement and drainage on the soft foundation, effectively improve the strength and stability of the roadbed, reduce the differential settlement of the foundation and satisfy the requirement of traffic load increase on the bearing capacity and deformation of the roadbed.

9/9 © EPODOC / EPO

- PN - [CN2618951Y](#) Y 20040602
- PR - CN2003232909U 20030117
- AP - CN2003232909U 20030117
- DT - I
- PA - ZHOU JISUI [CN]
- TI - Ribbed working lattice room
- AB - The utility model relates to a reinforced **geocell** which comprises grid belts produced by polymer material or grid belts wrapped with reinforced material, the grid belts are laid out with upright surface, nodes are formed by spacing and dislocation connection between the grid belts, and net shaped cells with three-dimension stereo structure are formed through mechanical connection or adhesion and welding. The grid belts can be broadband or narrowband groups with water discharging **holes**, and techniques such as buckling, locking, riveting, blocking, sticking and welding are used on the nodes to bond the grid belts into the **geocell** with stereo three dimensional structure, and to furl into bundles to make the storage and transportation convenient, the **geocell** is extended

to make the construction convenient, the tensile strength is high, the elongation ratio is low, and the weight is light, clay can pass the lock and occlude in an embedded manner in three directions of the longitudinal, the lateral and the vertical, and the mutual function with the clay is very good. The technique and the device are simple, the production cost is low, storage, transportation and use are all convenient, and the life is long, thus can be widely used in foundation reinforcement and reinforced retaining wall, and used in projects such as the reinforced bridge abutment to reduce sediment, the reinforced side slope to preserve soil and plant grass, and the desert to accumulate sand to build road, and has better technical and economic benefits compared with plane grid.

[SS 4]