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Search query (3): [SP]: pavement systems with geocell and geogrid this disclosure relates to pavement systems and methods for paving that are suitable for locations containing a generally weak subgrade with a California bearing ratio of four (4) or lower. the pavement system includes a first geogrid layer placed directly on the subgrade a first granular layer upon the first geogrid layer, the first granular layer having a thickness of from 0.5 times to 20 times the aperture distance of the geogrid layer a first geocell layer upon the first granular layer comprising a geocell and an infill material and a capping layer over the geocell layer. a second geocell/geogrid layer can be placed beneath the capping layer, if desired. an optional surface layer may be applied upon the capping layer if desired. the resulting pavement system provides long-term support for pavements applied over the pavement system.

Results: 13

1) Family number: 58868197 (US2016230353A)

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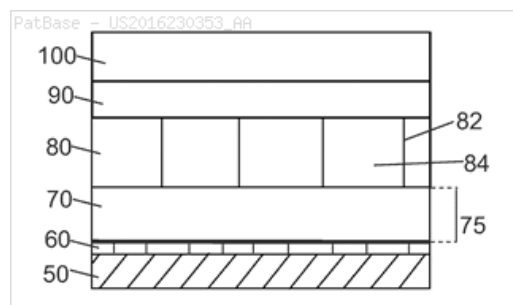
Title: PAVEMENT SYSTEMS WITH GEOCELL AND GEOGRID

Abstract: Source: US2016230353A This disclosure relates to pavement systems and methods for paving that are suitable for locations containing a generally weak subgrade with a California Bearing Ratio of four (4) or lower. The pavement system includes a first geogrid layer placed directly on the subgrade; a first granular layer upon the first geogrid layer, the first granular layer having a thickness of from 0.5 times to 20 times the aperture distance of the geogrid layer; a first geocell layer upon the first granular layer comprising a geocell and an infill material; and a capping layer over the geocell layer. A second geocell/geogrid layer can be placed beneath the capping layer, if desired. An optional surface layer may be applied upon the capping layer if desired. The resulting pavement system provides long-term support for pavements applied over the pavement system.

Classifications:**International (IPC 8-9):** E01C E01C3/00 E01C3/04 E01C7/04

E02D3/00 (Advanced/Invention);

E01C (Subclass/Invention)

CPC: E01C3/003 E02D3/005 E02D2300/0084 E01C3/006 E01C3/04**US:** 404/28**Family:**

Publication number	Publication date	Application number	Application date
AP201609160 A0	20160430	AP20160009160	20140930
AU2014326302 AA	20150402	AU20140326302	20140930
CA2925670 AA	20160329	CA20142925670	20140930
CN105793492 A	20160720	CN201480065357	20140930
CO16112784 A2	20161021	CO20160112784	20160502
EA201690682 A1	20160831	EA20160090682	20140930
EP3052703 A2	20160810	EP20140848979	20140930
EP3052703 A4	20170510	EP20140848979	20140930
IL244821 A0	20160531	IL20140244821	20140930
IN201637013677 A	20160812	IN201637013677	20160419
JP2016532798 T2	20161020	JP20160545068T	20140930
KR20160108299 A	20160919	KR20167011376	20140930
MX2016004124 A1	20160916	MX20160004124	20140930
PE14952016 A1	20170112	PE20160001441	20140930
US2016230353 AA	20160811	US20140025347	20140930
WO15044792 A2	20150402	WO2014IB02807	20140930
WO15044792 A3	20150820	WO2014IB02807	20140930

Priority:

US20130884231P 20130930

US20140025347 20140930

WO2014IB02807 20140930

Probable Assignee: GEOTECH TECHNOLOGIES LTD**Assignee(s):** (std): GEOTECH TECH LTD ; GEOTECH TECH TECH LTD ; R F G TRADING LTD ; GEOTECH TECHNOLOGIES LTD ; ODED EREZ ; IZHAR HALAHMI ; OFFER AVRAHAM ZVI KIEF**Assignee(s):** EREZ ODED ; KIEF OFFER AVRAHAM ZVI ; HALAHMI IZHAR ; GEOTECH TECH TECHNOLOGIES LTD ; RFG TRADING LTD**Inventor(s):** (std): OFFER AVRAHAM ZVI KIEF ; ODED EREZ ; KIEF OFFER AVRAHAM ZVI ; IZHAR HALAHMI ; HALAHMI IZHAR ; EREZ ODED**Agent(s):** IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIASETZKI NENNIGER KVAS LLP; JOSE ANDRES RINCON USCATEGUI; KADOR AND PARTNER**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LI 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**2) Family number: 10736889** (US5735640A)

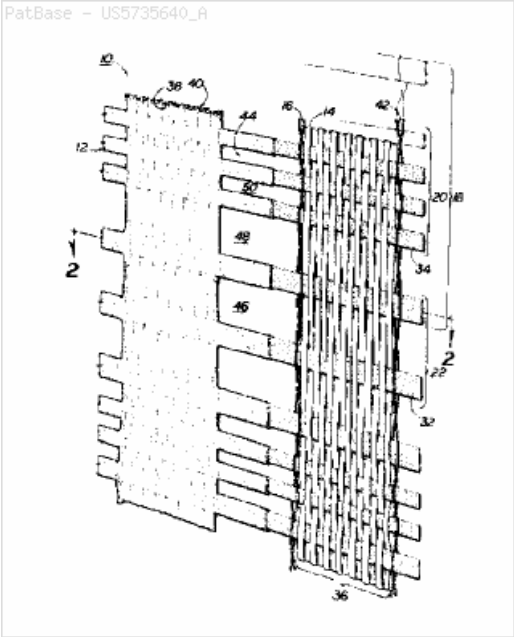
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Title: GEO TEXTILES AND GEOGRIDS IN SUBGRADE STABILIZATION AND BASE COURSE REINFORCEMENT APPLICATIONS**Abstract:** Source: US5735640A Geosynthetics and structures for earth reinforcement, stabilization and retention.

Membranes used in such structures are formed by weaving a number of fill members, which are preferably fibrillated polypropylene members or strips, with a plurality of warp member sets, which are preferably formed of extruded polypropylene yarns. The woven membrane so formed sustains the moderate tensile loads imposed by earth reinforcement requirements in roadways, runways, and other ways. It is inexpensive because the materials are inexpensive and may be woven in a cost efficient way, and, if desired, in a way which allows the strength and tensile properties of the membrane to be varied for a custom application by varying the composition, number and disposition of the fill members and warp members. These geosynthetic membranes provide superior results as compared to conventional extruded (and harder) conventional geogrids or other materials, because they are more flexible, easier to roll during manufacture, inventory, ship, and install. Such geosynthetics also feature a number of differently sized voids for effective soil and aggregate retention without filtration compromise. Finally, such geotextiles accommodate easier installation because successive sections may be more easily stitched, or otherwise fastened together.

Classifications:

International (IPC 8-9): E01C3/00 E02D17/20
E02D3/00 (Advanced/Invention);
E01C3/00 E02D17/20 E02D3/00 (Core/Invention)
International (IPC 1-7): B32B5/02 D03D9/00 E01C11/16 E02D17/20
CPC: E02D3/00 E01C3/003 E02D17/20 Y10T442/3602
European: E01C3/00B E02D17/20 E02D3/00
US: 404/70 405/258 405/302.7 442/255



Family:

Publication number	Publication date	Application number	Application date
US5735640 A	19980407	US19960627045	19960403

Priority:

US19960627045 19960403

Probable Assignee: NICOLON CORP
Assignee(s): (std): NICOLON CORP
Inventor(s): (std): MATTTEL WILLIAM M ; MEYER BRADLEY ROSS

3) Family number: 11142620 (US5851089A) © PatBase

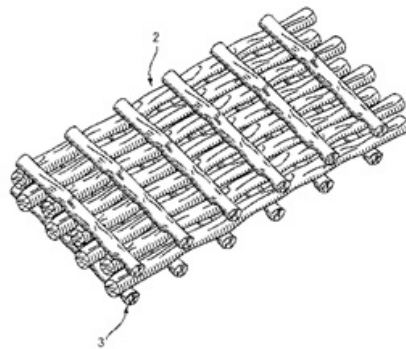
Title: COMPOSITE REINFORCED STRUCTURE INCLUDING AN INTEGRATED MULTI-LAYER GEOGRID AND METHOD OF CONSTRUCTING THE SAME

Abstract: Source: US5851089A This invention relates to a geogrid structure which is comprised of two or more layers of rigidly bonded flexible mesh structures. The mesh openings of each layer, without superimposing, overlay mesh openings of other layers, resulting in a geogrid structure which consists of small and large sized mesh openings. The smaller sized mesh openings are designed to reduce vertical migration of the smaller aggregate particles into the subgrade and to reduce pumping of the subgrade material into the aggregate layer. The rigid bonding of multiple layers of mesh structure provides a mechanism for transmission of tensile stress which is less dependent upon interlocking of aggregate particles. Furthermore, by bonding multiple layers of mesh structure, the number of tensile elements per unit area is increased, and as a result, the interaction of the geogrid with the fill material is enhanced. This increased interaction results in enhanced interlocking of aggregate particles and in increased frictional resistance of the geogrid structure for a variety of fill material. As a result, the geogrid structure of the present invention exhibits enhanced tensile stress transmission for a spectrum of high and low grade fill material.

Classifications:

International (IPC 8-9): B29C47/12 E02D17/20
E02D29/02 (Advanced/Invention);
B29C47/12 E02D17/20 E02D29/02 (Core/Invention)
International (IPC 1-7): B29C47/12 C09K17/00 E01C21/00
E01C3/00 E02D17/20 E02D29/02
CPC: B29C47/122 E02D17/202 B29C47/0014 B29C47/0033
B29L2028/00 E02D29/0241
European: B29C47/00J10 B29C47/12 E02D17/20B E02D29/02D2
L29L28/00
US: 405/258 405/259.1 405/262 405/302.7

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
AU199746351 A1	19980505	AU19970046351	19971007
EP0868576 A1	19981007	EP19970945057	19971007
EP0868576 B1	20030514	EP19970945057	19971007
US5851089 A	19981222	US19960727346	19961007
WO9815693 A1	19980416	WO1997IB01378	19971007

Priority:

US19960727346 19961007 WO1997IB01378 19971007

Probable Assignee: TENAX SPA

Assignee(s): (std): TENAX SPA

Assignee(s): TENAX VIA DELL INDUSTRIA SPA ; TENAX S P A

Inventor(s): (std): BERETTA MARIO

Inventor(s): MARIO BERETTA

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG UZ VN YU ZW

4) Family number: 29683500 (US2004067103A)

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Title: REINFORCED PERMEABLE PAVING STRUCTURE

Abstract: Source: US2004067103A A paving structure (11) of the type having an upper wear layer (12) and an underlying sub-base layer (15) of rigid insoluble hard particulate material forming voids for the collection of water permeating through the permeable surface where layer (12) has an intermediate reinforcing grid (16) located at an intermediate level of the sub-base layer (15) such that it is covered by an upper part of the sub-base layer (15U) which is of a thickness not less than 1½ times the dimension of the largest particles in that part of the sub-base layer. A reinforcing grid (26) at the base of the sub-base layer between this and the sub grade (18) may also be provided.

Classifications:

International (IPC 8-9): E01C3/00 E01C3/06

E01C5/00 (Advanced/Invention);

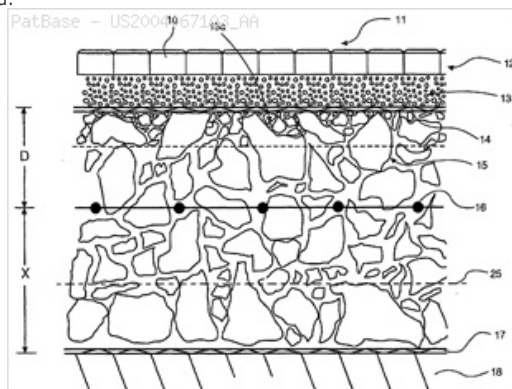
E01C3/00 E01C5/00 (Core/Invention)

International (IPC 1-7): E01C E01C3/00 E01C5/00

CPC: E01C3/06 E01C5/003

European: E01C3/06 E01C5/00C

US: 404/2 404/28 404/29 404/3 404/30 404/31

**Family:**

Publication number	Publication date	Application number	Application date
AT321913 E	20060415	AT20010274092T	20011228

AU2002217305 AA	20021021	AU20020217305	20011228
AU2002217305 BB	20061019	AU20020217305	20011228
CA2431629 AA	20030605	CA20012431629	20011228
CA2431629 C	20080916	CA20012431629	20011228
CN1492958 A	20040428	CN20018021810	20011228
DE60118298 D1	20060518	DE20016018298	20011228
DE60118298 T2	20061221	DE20016018298T	20011228
EP1373640 A1	20040102	EP20010274092	20011228
EP1373640 B1	20060329	EP20010274092	20011228
ES2261342 T3	20061116	ES20010274092T	20011228
GB200108701 A0	20010530	GB20010008701	20010406
NZ526311 A	20060127	NZ20010526311	20011228
US2004067103 AA	20040408	US20030450764	20031015
US7168884 BB	20070130	US20010450764	20011228
WO20081822 A1	20021017	WO2001GB05790	20011228
ZA200304637 A	20040504	ZA20030004637	20030613

Priority:

GB20010008701 20010406 WO2001GB05790 20011228

Probable Assignee: FORTERRA BUILDING PRODUCTS LTD

Assignee(s): (std): FORMPAVE LTD ; HART PETER ; FORMPAVE LTD ; FORMPAVE HOLDINGS LIMITED ; FORMPAVE HOLDINGS LTD

Assignee(s): FORMPAVE HOLDINGS LTD CHELTENHAM ; FORMPAVE HOLDINGS LTDSTAVERTON COURTSTAVERTON, CHELTENHAMGL51 0UXGLOUCESTERSHIREGB ; FORMPAVE LIMITED ; BANK OF AMERICA NA COLLATERAL AGENT AS ; CREDIT SUISSE ADMINISTRATIVE AGENT AG AS ; HANSON BUILDING PRODUCTS LTD ; PIMCO 2945 LTD ; PIMCO 2945 LTDHANSON HOUSE14 CASTLE HILLSL6 4JJMAIDENHEADGB ; FORMPAVE LTD TUFTHORN AVENUECOLESFORDGL16 8PRGLOUCESTERGB ; HANSON BUILDING PRODUCTS LTDSTEWARTBYBEDFORDSHIREMK43 9LZBEDFORDGB ; HBP BUILDING PRODUCTS LTD ; FORTERRA BUILDING PRODUCTS LTD ; HPB BUILDING PRODUCTS LTD ; FORTERRA BUILDING PRODUCTS F K A HANSON BUILDING PRODUCTS LTD

Inventor(s): (std): PETER HART ; HART PETER

Inventor(s): HART PETERGB

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; DARBY AND DARBY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

5) Family number: 43124303 (US2009142542A)

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Title: SANDWICH SYSTEM

Abstract: Source: US2009142542A A composite system comprises a base layer, a capping layer, and at least one core geocell layer. The base layer and capping layer are stacked below and above the core geocell layer, which is infilled with a low quality material. In specific embodiments, the base layer and capping layer are each geocells infilled with a high quality material. This composite system meets engineering specifications economically.

Classifications:

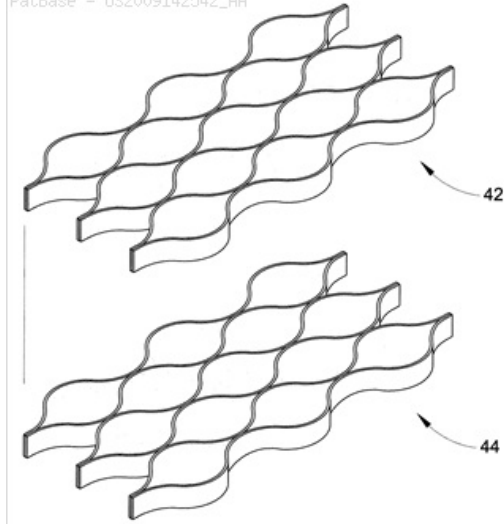
International (IPC 8-9): B32B3/12 B32B7/00 E02D29/00 E02D3/00 E02D3/12 F16M13/00 (Advanced/Invention); B32B3/12 E02D3/00 (Core/Invention)

CPC: Y10T428/24149 Y10T428/24157 Y10T428/24174 E02D17/20

European: E02D17/20

US: 405/262 405/284 405/302.4 414/800 414/800P 428/116 428/116P 428/116S 428/117 428/117S 428/119

PatBase - US2009142542_AA



Family:

Publication number	Publication date	Application number	Application date
US2009142542 AA	20090604	US20080238927	20080926
US2010254795 AA	20101007	US20090566781	20090925
US8173241 BB	20120508	US20080238927	20080926
WO09045896 A1	20090409	WO2008US77859	20080926

Priority:

US20070975576P 20070927 US20080115653P 20081118 US20080238927 20080926
US20090566781 20090925

Probable Assignee: GEOTECH TECHNOLOGIES LTD

Assignee(s): (std): EREZ ADI ; EREZ ODED ; HALAHMI IZHAR ; PRS MEDITERRANEAN LTD

Assignee(s): GEOTECH TECHNOLOGIES LTD
Inventor(s): (std): EREZ ADI ; EREZ ODED ; HALAHMI IZHAR
Agent(s): FAY SHARPE LLP; RICHARD M; KLEIN RICHARD M
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 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 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

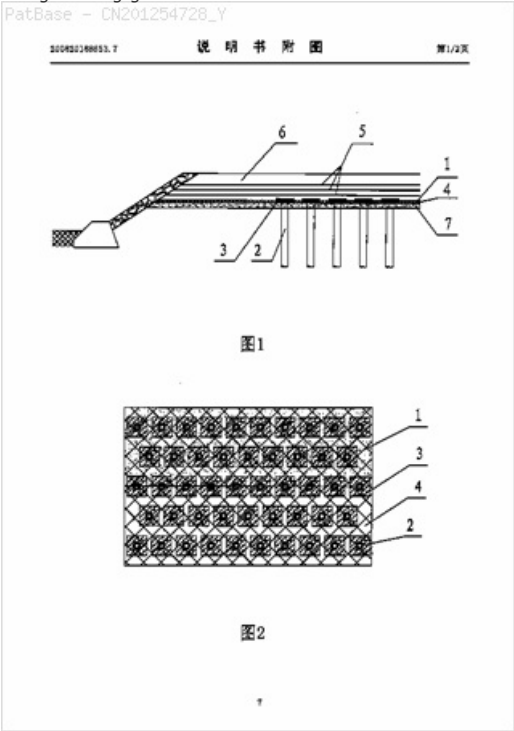
6) Family number: 43411090 (CN201254728Y) © PatBase

Title: Pile and earthwork cellular chamber composite foundation

Abstract: Source: CN201254728Y The utility model discloses a compound groundsill of a pile and a geocell and aims at providing a compound groundsill of a pile and a geocell with the advantages of simple structure, low cost, high loading capacity, and good stability. The utility model comprises a layer of geocells (1) and piles (2). The piles (2) are arranged according to certain distances. The piles (2) penetrate a soft soil layer and are supported into a hard soil layer with relatively small compressibility. The geocells are paved on the top surfaces of the piles (2); the geocells (1) and the piles (2) are fixedly connected by joints (3) into an integral structure which is co-acted; and the gridding of the geocells (1) is filled with sand fillings (4). The utility model can be broadly applied to the field of engineering groundsills.

Classifications:

International (IPC 8-9): E02D27/10 E02D27/16 (Advanced/Invention); E02D27/10 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201254728 Y	20090610	CN200820188653U	20080815

Priority:

CN200820188653U 20080815

Probable Assignee:

Assignee(s): (std): WEIJIA CHEN
Assignee(s): CHEN WEIJIA
Inventor(s): (std): WEIJIA CHEN
Inventor(s): CHEN WEIJIA

7) Family number: 44816988 (US2010080659A) © PatBase

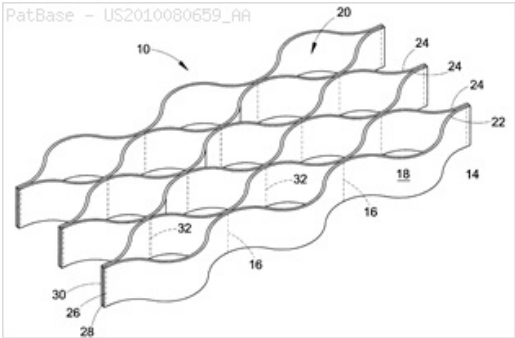
Title: GEOCELL FOR LOAD SUPPORT APPLICATIONS

Abstract: Source: US2010080659A A geocell is disclosed that has high strength and stiffness, such that the geocell has a storage modulus of 500 MPa or greater at 23 degrees centigrade; a storage modulus of 150 MPa or greater at 63 degrees centigrade when measured in the machine direction using Dynamic Mechanical Analysis (DMA) at a frequency of 1 Hz; a tensile stress at 12 percent strain of 14.5 MPa or greater at 23 degrees centigrade; a coefficient of thermal expansion of 120x10-6/ degrees centigrade or less at 25 degrees centigrade; and/or a long term design stress of 2.6 MPa or greater. The geocell is suitable for load support applications, especially for reinforcing base courses and/or subbases of roads, pavement, storage areas, and railways.

Classifications:

International (IPC 8-9): A41D13/00 B29C35/08 B29C47/00 B29C47/06 B29C55/02 B29C59/02 B32B27/00 B32B3/12 E01C3/00 E01C5/08 E02D17/20 E02D27/30 E02D29/02 (Advanced/Invention); C08L23/06 (Advanced/Non-invention); A41D13/00 B32B27/00 B32B3/12 E01C3/00 E02D17/20 E02D27/00 E02D29/02 (Core/Invention);

C08L23/00 (Core/Non-invention)
CPC: E02D17/18 E02D17/202
European: E02D17/18 E02D17/20B
US: 264/145 264/145S 264/173.16 264/173.160S 264/210.1 264/210.100S 264/210.2 264/210.200S 264/210.5 264/210.500S 264/477 264/477P 404/70 405/302.4 405/302.400P



Family:

Publication number	Publication date	Application number	Application date
EA014204 B1	20101029	EA20080002334	20081216
EA015761 B1	20111230	EA20100000218	20081216
EA200802334 A1	20100430	EA20080002334	20081216
EA201000218 A1	20100630	EA20100000218	20081216
US2010080659 AA	20100401	US20080240058	20080929
US2011304080 AA	20111215	US20110216360	20110824
US8025457 BB	20110927	US20080240058	20080929
US8157472 BB	20120417	US20110216360	20110824

Priority:

US20080240058 20080929 US20110216360 20110824

Probable Assignee: GEOTECH TECHNOLOGIES LTD

Assignee(s): (std): EREZ ADI ; EREZ ODED ; HALAHMI IZHAR ; PRS MEDITERRANEAN LTD ; PRS MEDITERRANIAN LTD

Assignee(s): GEOTECH TECHNOLOGIES LTD

Inventor(s): (std): EREZ ADI ; EREZ ODED ; HALAHMI IZHAR

Agent(s): FAY SHARPE LLP; RICHARD M

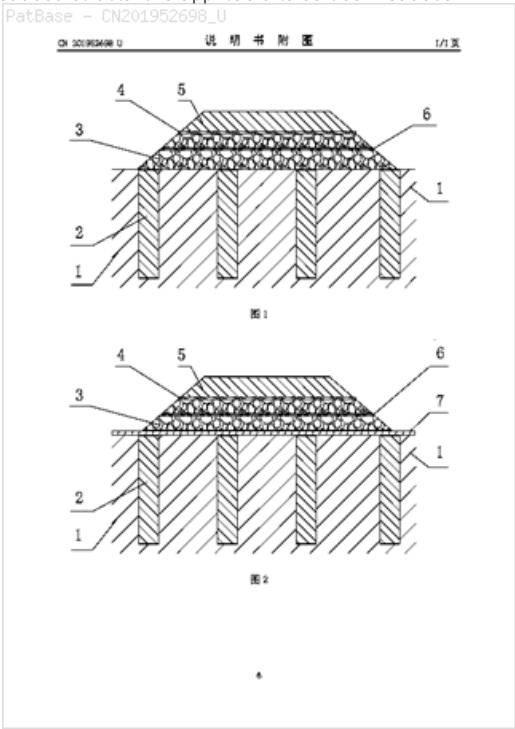
8) Family number: 49493988 (CN201952698U) © PatBase

Title: Roadbed structure reinforced by geotextile discrete material piles

Abstract: Source: CN201952698U The utility model belongs to the field of civil engineering construction, and particularly relates to a roadbed structure reinforced by geotextile discrete material piles. The roadbed structure is characterized by comprising a geotextile discrete material pile layer, a middle coarse sand or break stone mattress layer, a first geogrid or geocell layer and a roadbed fill stratum, the geotextile discrete material pile layer consists of geotextile discrete material piles which are inserted into a soft soil roadbed, the geotextile discrete material piles are distributed on the soft soil roadbed at intervals ranging from 60cm to 250cm, the top of the geotextile discrete material pile layer is located on the ground, the middle coarse sand or break stone mattress layer is arranged at the top of the geotextile discrete material pile layer, the first geogrid or geocell layer is horizontally laid at the top of the middle coarse sand or break stone mattress layer, and the roadbed fill stratum is built on the first geogrid or geocell layer. The roadbed structure is applicable to soft soil roadbed.

Classifications:

International (IPC 8-9): E01C3/04 E02D3/08 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201952698 U	20110831	CN201120056526U	20110307

Priority:

CN201120056526U 20110307

Probable Assignee: LI JIE

Assignee(s): (std): DUAN HAIPENG ; LI JIE ; SHOUZHONG FENG ; ZHUWANG YAN

Assignee(s): YAN ZHUWANG ; FENG SHOUZHONG

Inventor(s): (std): SHENG ZHANG ; SHOUZHONG FENG ; XIUHE CHEN ; ZHUWANG YAN

Inventor(s): CHEN XIUHE ; FENG SHOUZHONG ; YAN ZHUWANG ; ZHANG SHENG

9) Family number: 52655104 (CN102817299A)

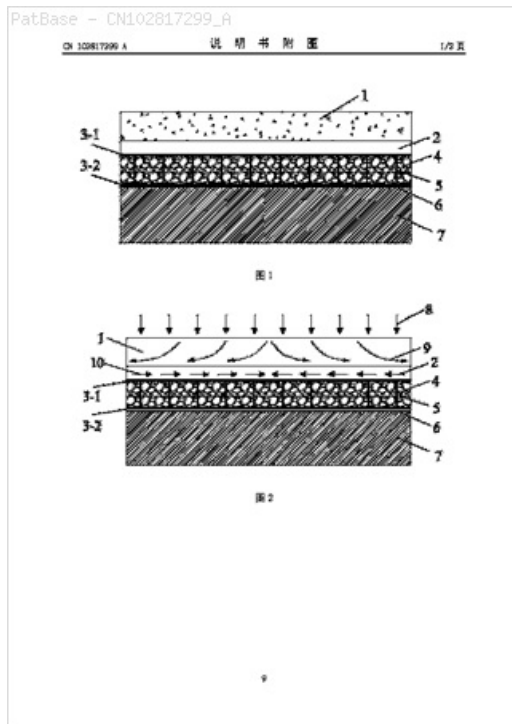
© PatBase

Title: STRUCTURE FOR REPAIRING URBAN BITUMINOUS PAVEMENTS AND CONSTRUCTION METHOD THEREOF

Abstract: Source: CN102817299A The invention belongs to the technical field of urban bituminous pavement repairing, and discloses a structure for repairing urban bituminous pavements and a construction method thereof. The structure comprises a bituminous pavement layer, a base layer, an upper layer high-strength geogrid, a geocell reinforcement layer filled with old bituminous pavement mixed aggregates, a lower layer high-strength geogrid, a waterproof layer and roadbed from top to bottom. According to the structure for repairing urban bituminous pavements and the construction method thereof, prior old bituminous pavement materials are fully used, and cross impacts of rainfall and ground water on the roadbed and the bituminous pavement are segregated effectively. Simultaneously, by means of a combined reinforcement structure of the upper layer and the lower layer high-strength geogrids and the geocell reinforcement layer, the anti-deformation capacity of the bituminous pavement structure can be improved effectively, cracking and deformation of the bituminous pavement structure are restricted, and the service life of the bituminous pavement is increased. Particularly, when local bad foundation exists in the roadbed, the 'girder effect' formed by the combined reinforcement structure can effectively transmit loads on the local bad foundation to around foundation, and secondary damages to a novel paved bituminous pavement structure are avoided.

Classifications:

International (IPC 8-9): E01C7/32 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN102817299 A	20121212	CN201210326301	20120905
CN102817299 B	20150401	CN201210326301	20120905

Priority:

CN201210326301 20120905

Probable Assignee: UNIV HUAZHONG SCIENCE TECH

Assignee(s): (std): HUAZHONG UNIV OF SCIENCE AND TECHNOLOGY ; UNIV HUAZHONG SCIENCE TECH ; SHANXI PROVINCIAL RES INST COMM

Assignee(s): SHANXI PROVINCIAL RESEARCH INST OF COMMUNICATIONS ; HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Inventor(s): (std): CAO WENZHAO ; LAI HANJIANG ; ZHENG JUNJIE ; ZHANG JUN

10) Family number: 54552608 (US2013209178A)

© PatBase

Title: GEOCELL FOR MODERATE AND LOW LOAD APPLICATIONS

Abstract: Source: US2013209178A Geocells for moderate to low load applications are disclosed here. The geocells have a cell wall thickness of from 0.25 mm to 0.95 mm. They have a wall strength of from 3500 N/m to 15000 N/m.

Classifications:

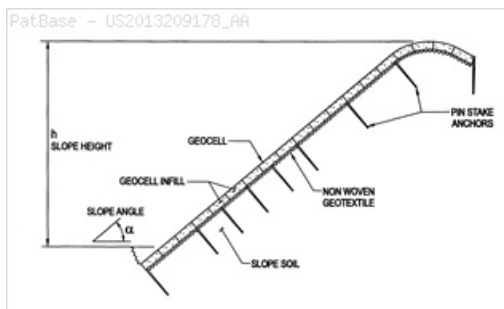
International (IPC 8-9): A01G1/00 E01C3/00 E01C3/04 E02B5/02

E02B7/02 E02D E02D17/18 E02D17/20 E02D27/40 E02D29/02

E02D3/00 (Advanced/Invention);

E02D (Subclass/Invention)

CPC: Y10T428/24157 E02D29/02 E02B5/02 E02B7/02 E02D27/40
E01C3/00 A01G1/007 E02D2600/30 E02D2300/0084 E02D2300/0006
E02D17/202 E02D17/18
US: 404/28 404/70 405/302.7 428/117



Family:

Publication number	Publication date	Application number	Application date
CA2864152 AA	20140808	CA20122864152	20120302
IL233969 A0	20140930	IL20120233969	20120302
IL233969 A1	20160731	IL20120233969	20120302
IL246176 A0	20160731	IL20120246176	20120302
RU2014136712 A	20160410	RU20140136712	20120302
RU2603677 C2	20161127	RU20140136712	20120302
US2013209178 AA	20130815	US20120411298	20120302
US2013209179 AA	20130815	US20120418840	20120313
US2016244935 AA	20160825	US20150623922	20150217
US8950982 BB	20150210	US20120411298	20120302
US8956085 BB	20150217	US20120418840	20120313
WO13119259 A2	20130815	WO2012US27542	20120302
WO13119259 A3	20140417	WO2012US27542	20120302

Priority:

US20120411298 20120302 US20120418840 20120313 US20120597652P 20120210
WO2012US27542 20120302 US20150623922 20150217

Probable Assignee: GEOTECH TECHNOLOGIES LTD

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Inventor(s): (std): ADI EREZ ; EREZ ADI ; EREZ ODED ; HALAHMI IZHAR ; IZHAR HALAHMI ; KHALAKHMI ITS KHAR ; ODED EREZ

Inventor(s): HALAHMI IZHARIL ; EREZ ODEDIL ; EREZ ADIIL

Agent(s): PIASETZKI NENNIGER KVAS LLP; JMB DAVIS BEN DAVID; RICHARD M; FAY SHARPE LLP; HUANG GEORGE P

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 QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

11) Family number: 59285692 (US2015142369A)

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Title: PREDICTION OF CALIFORNIA BEARING RATIO OF SUBBASE LAYER USING MULTIPLE LINEAR REGRESSION MODEL

Abstract: Source: US2015142369A A method for predicting the California Bearing Ratio of a pavement subbase layer, wherein samples are collected from different regions of the subbase layer, the samples are tested to determine at least moisture content and density. Each sample is prepared at optimum moisture content and at different densities and tested to determine the California Bearing Ratio for each density and to obtain a dataset of variables. A multiple linear regression model is applied to selected variables from the dataset to relate the determined California Bearing Ratio value to the selected variables from the dataset to obtain a predicted value of the California Bearing Ratio of a subbase having comparable variables.

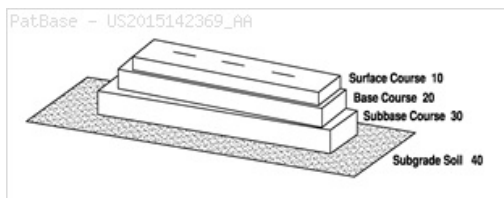
Classifications:

International (IPC 8-9): G01N33/24 G01N9/36

G06F17/18 (Advanced/Invention)

CPC: G01N9/36 G01N33/383 E02D1/08

US: 702/137



Family:

Publication number	Publication date	Application number	Application date
US2015142369 AA	20150521	US20130081137	20131115

Priority:

US20130081137 20131115

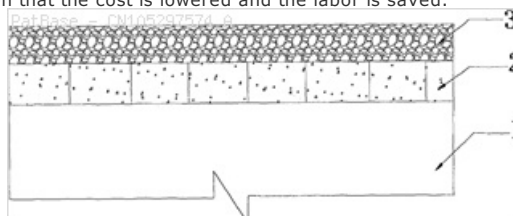
Probable Assignee: UMM AL QURA UNIV

Assignee(s): (std): ALAWI MOHAMMAD HASAN ; RAJAB MAHER IBRAHIM A ; UMM AL QURA UNIV ; UNIV UMM AL QURA

Inventor(s): (std): ALAWI MOHAMMAD HASAN ; RAJAB MAHER IBRAHIM A

Title: STRESS ABSORBING LAYER FOR PROCESSING ASPHALT PAVEMENT CRACKS, PAVEMENT STRUCTURE AND CONSTRUCTION METHOD

Abstract: Source: CN105297574A The invention relates to a stress absorbing layer for processing asphalt pavement cracks, a pavement structure and a construction method. The stress absorbing layer for processing the asphalt pavement cracks is a bag discrete material layer which is arranged between a substrate layer and a pavement layer; the bag discrete material layer consists of bags which contain discrete materials and are laid longitudinally along a road; the used bags are formed by cutting and sewing geotechnical cloth; the discrete materials in the bags are one or more in sand, stone, asphalt pavement milling material, soil, muck and sandy soil; the pavement structure comprises the substrate layer, the pavement layer and the stress absorbing layer; and the stress absorbing layer is arranged between the substrate layer and the pavement layer. According to the absorbing layer for processing the asphalt pavement cracks, the pavement structure and the construction method, the bag discrete materials are adopted as the stress absorbing layer; the reflection cracks formed on the semi-rigid asphalt pavement can be effectively solved; the construction is simple; the materials are cheap and easily-available; and the service life of the pavement can be well prolonged under the condition that the cost is lowered and the labor is saved.

Classifications:**International (IPC 8-9):** E01C7/02 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
CN105297574 A	20160203	CN201510674085	20151013

Priority:

CN201510674085 20151013

Probable Assignee:

HE JIANHUI

Assignee(s): (std):

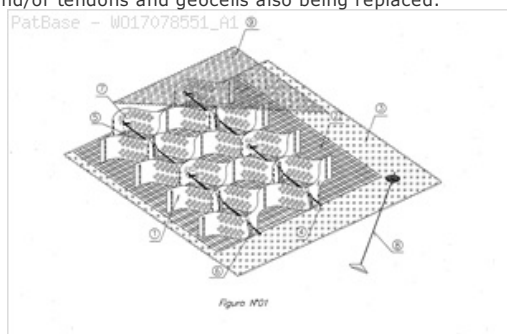
HE JIANHUI

Inventor(s): (std):

HE JIANHUI

Title: MULTICOMPONENT GEOCELLULAR CONFINEMENT SYSTEM

Abstract: The invention relates to a multicomponent geocellular confinement system formed by geocells (1), geomeshes (2), geotextiles (3), tendons (4), stakes (5), straps or bands (6), anchors (8), and a covering (9), joined by a universal connector (7) that ensures the functionality of the joints or connections, all of the elements of the system being joined or connected together, forming a system anchored to the soil and/or to sloped screes. The system is filled with different types of soils, soil cement, concrete, porous concrete, or porous asphalt concrete, etc. All or some of the components of the multicomponent geocellular confinement system can be manufactured from polymers, polymers and nylon, metal, black steel, galvanised steel or stainless steel, as well as timber-yielding organic materials and/or biodegradable plastics. By means of the multicomponent geocellular confinement system, greater tensile strength is obtained, said tensile strength being able to absorb the necessary stress to provide a covering and protection for screes, riverbanks, and hydraulic canal maintenance, and for improving load distribution and support on soft soils. Also, the need for stapling machines or devices is eliminated, with accessories that join geocells, geocells and stakes, and/or tendons and geocells also being replaced.

Classifications:**International (IPC 8-9):** B65D1/00 E02D17/20 (Advanced/Invention)**CPC:** E02D17/20**Family:**

Publication number	Publication date	Application number	Application date
PE07912016 Z	20160819	PE20150002370U	20151106
WO17078551 A1	20170511	WO2016PE00020	20161017

Priority:

PE20150002370 20151106 PE20150002370U 20151106

Probable Assignee: CARDOZO RUBIO JESUS EDUARDO**Assignee(s):** (std): CARDOZO RUBIO JESUS EDUARDO**Inventor(s):** (std): CARDOSO RUBIO JESUS EDUARDO**Agent(s):** ACOSTA SZKOPIEC ANA LUISA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JP KE KG KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW