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Created on: 10 May 2023

Search: TAC=(wall and support) and PA=(SOLETANCHE FREYSSINET)

Records: 21 (1-21 of 21)

Export type: Family Export

1. Family 91238285 (EP3992370 A1)

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Title
[EN] SYSTEM FOR HOLDING A SUPPORTING WALL, AND METHOD FOR INSTALLING SAME

Abstract
[FR] L'invention concerne un systeme d'appui (4) d'une paroi de soutènement, et le procede d'installation correspondant, comportant:- une jambe de force (10) pour supporter la paroi de soutènement, la jambe de force s'etendant entre une extremite superieure (10b) et une extremite inferieure (10c), et- un dispositif de couplage (12) pour coupler l'extremite superieure de la jambe de force a ladite paroi de soutènement,dans lequel le dispositif de couplage (12) est distinct de la jambe de force, et comporte un dispositif de fixation pour fixer le dispositif de couplage a ladite paroi de soutènement, et une butee superieure (16) configuree pour, lorsque le dispositif de couplage (12) couple l'extremite superieure a la paroi de soutènement (2), bloquer le deplacement de l'extremite superieure (10b) de la jambe de force vers le haut.

International Class: E02D17/04; E02D17/08; E02D29/02; E02D31/10; E04G21/26; E04G23/04

Cooperative Patent Class: E02D17/04; E02D17/083; E02D29/02; E02D31/10; E04G21/26; E04G23/04

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	EP3992370 A1	20220504	EP20210205521	20211029
	FR3115800 A1	20220506	FR20200011090	20201029
	FR3115800 B1	20230106	FR20200011090	20201029

Priority Numbers: FR20200011090 [20201029]

Probable Patent Assignee: SOLETANCHE FREYSSINET

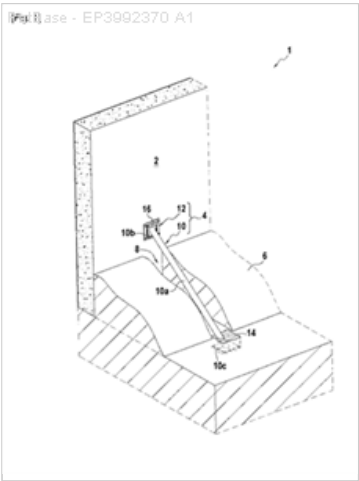
Assignees: SOLETANCHE FREYSSINET

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Non Std Inventors: BRUNO DEMARCQ; HERMESIO ALVARADO; GOKAN KESKIN

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Designated States: AL; AT; BA; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; ME; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR



2. Family 92093466 (WO22144162 A1)

[View in PatBase](#)

Title
[EN] METHOD FOR PRODUCING A RETAINING WALL

Abstract
[EN] Method for producing a retaining wall (W) configured to extend into the ground, comprising the steps of providing at least a first longitudinal support member (24) having a receiving portion and extending in a first longitudinal direction (L1); placing the first longitudinal support member transversally in relation to the ground; providing at least a first module (30) comprising a longitudinal element (32) and a first wing (34); positioning the first module parallel to the first longitudinal support member; connecting the first module to the first longitudinal support member such that the first wing of the first module engages in a sliding manner with the receiving portion of the first longitudinal support member; then translating the first module in a first longitudinal direction, and driving the first module and then the first longitudinal support member into the ground.

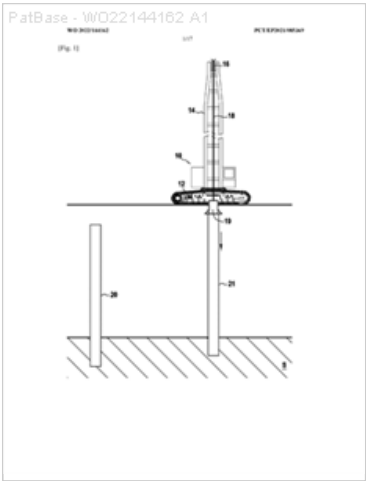
International Class: E02D29/02; E02B3/06; E02D13/04; E02D17/20; E02D5/06; E02D5/08
Cooperative Patent Class: E02B3/066; E02D13/04; E02D17/207; E02D29/0266; E02D5/06; E02D5/08

Family Information

Patent Number	Publication Date	Application Number	Application Date
FR3118468 A1	20220701	FR20200014273	20201230
FR3118468 B1	20230414	FR20200014273	20201230
WO22144162 A1	20220707	WO2021EP85369	20211213

Priority Numbers: FR20200014273 [20201230]
Probable Patent Assignee: SOLETANCHE FREYSSINET
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Agent(s): CABINET BEAU DE LOMENIE; BEAU DE LOMENIE

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; JO; JP; KE; KG; KH; 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; WS; ZA; ZM; ZW



3. Family 92204767 (CO20200016594 A1)

[View in PatBase](#)

Title

[MT] Method of manufacturing of a retaining wall

Abstract

[MT] Summary method of manufacturing of a retaining wall (W) designed to extend in a soil comprising the steps according to the provided at least one first longitudinal support (24) having a receiving part and extending along a first longitudinal direction (L1); the first longitudinal support is placed transversely with respect to the ground; it provides at least a first module (30) comprising a longitudinal member (32) and a first wing (34); the first module is placed in parallel to the first longitudinal support; the first module is connected to the first longitudinal support, so that the first wing of the first module fits in a sliding manner with the receiving part of the first longitudinal support; Then move said first module with a translation according to the first longitudinal direction, and is driven in the ground after said first module the first longitudinal support on the ground. Figure for the abstract: Fig. 7.

International Class: E04B1/00; E04B2/00

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	CO20200016594 A1	20220630	CO20200016594	20201230

Priority Numbers: CO20200016594 [20201230]

Probable Patent Assignee: SOLETANCHE FREYSSINET

Assignees: SOLETANCHE FREYSSINET

Inventors: URIBE JUAN FERNANDO; AMAYA CESAR; ROCHA ROBERT; ALBA JUAN CARLOS

4. Family 63999687 (AU2016202790 AA)

[View in PatBase](#)

Title
[EN] A SILO

Abstract
[EN] A silo Abstract A silo and a method of manufacturing the silo are provided. The silo comprises a base in the form of a concrete foundation slab, a round cylindrical side wall assembly 5 extending from the base, a roof extending over the side wall assembly, a roof support and a retaining edge kerb. The round cylindrical side wall assembly includes a plurality of precast concrete side wall panels, each side wall panel being formed with side edges having interengaging joint formations for engaging with adjacent side wall panels, and a plurality of post-tensioning hoop tendons located at predetermined intervals around an 10 external surface of the wall assembly. The method includes erecting the side wall panels on the foundation slab, each of the side wall panels being positioned side-by side in an interengaging configuration to form the wall assembly, externally post tensioning the wall assembly by locating the plurality of post-tensioning hoop tendons and post tensioning the hoop tendons, forming the retaining edge kerb between a lower 15 external face of the side wall assembly and the base, providing the roof support on the side wall assembly, and fitting the roof to the side wall assembly via the roof support.

International Class: B65D90/08; E04H7/28

Cooperative Patent Class: Y02A40/51

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	AU2016202790 AA	20161117	AU20160202790	20160429

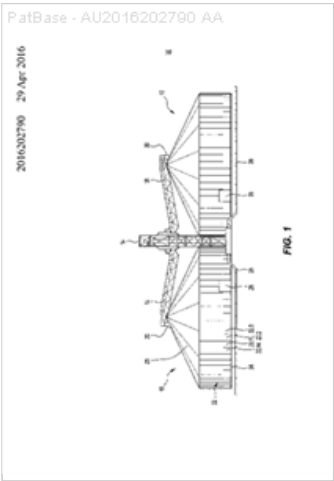
Priority Numbers: AU20150901527 [20150429]

Probable Patent Assignee: SOLETANCHE FREYSSINET

Assignees: SOLETANCHE FREYSSINET

Inventors: RENNEVILLE EDOUARD; DEGREEF BART

Agent(s): FPA PATENT ATTORNEYS PTY LTD



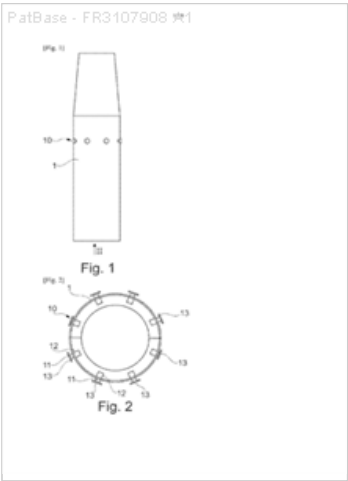
5. Family 86993740 (FR3107908 A1)

[View in PatBase](#)

Title
[MT] Method of sealing of a tubular sleeve IN A WELLBORE

Abstract
[MT] Anchor method of a tubular sleeve in a drilling anchor method of a sleeve in a borehole, comprising the steps of: placing in the drilling the sleeve equipped with an expandable structure comprising a number n of moveable fingers relative to the sleeve, deploy a number M of fingers outward with $M < N$, by means of a tool, in case of actuation introduced into the sleeve of the sleeve in the drilling insufficient capital bonded to a failure of at least one zone of the wall of the wellbore against which one of M fingers thereby deployed bears, move the tool in relation to the sleeve so as to allow it to deploy all or part of the $N - M$ remaining fingers. Figure for the abstract: Fig. 9

International Class: E02D13/04; E02D27/52; E02D5/28; E02D7/28
Cooperative Patent Class: E02D13/00; E02D27/425; E02D27/525; E02D5/285; E02D7/28



Family Information

	Patent Number	Publication Date	Application Number	Application Date
	FR3107908 A1	20210910	FR20200002233	20200305

Priority Numbers: FR20200002233 [20200305]
Probable Patent Assignee: SOLETANCHE FREYSSINET
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Non Std Inventors: JEAN PHILIPPE RICARD; JEAN DANIEL LEBON; ERIC LAURENT
Agent(s): CABINET NONY

6. Family 70332209 (EP3342466 A1)

[View in PatBase](#)

Title
[EN] FIRE STOP DEVICE PASSING THROUGH A WALL

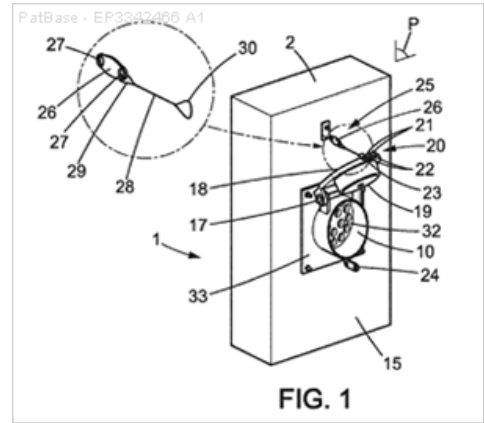
Abstract
[FR] L'invention a pour objet un dispositif coupe-feu de traversee d'une paroi (2), notamment pour la traversee de la paroi par un fluide et/ou un cable electrique, le dispositif comprenant un manchon (5) de traversee de paroi muni d'un corps principal et d'un orifice de passage (10), ledit manchon (5) etant configure pour que le corps principal soit loge dans ladite paroi et l'orifice d'entree (10) soit dispose hors de la paroi (2), le dispositif coupe-feu (1) comprenant un volet d'obturation de l'orifice (10) par gravite, ledit volet etant mobile entre une position de fermeture de l'orifice (10) et une position d'ouverture de l'orifice (10), le dispositif (1) comprenant un organe de commande (25) du volet entre la position d'ouverture et la position de fermeture, l'organe (25) comprenant un element thermiquement fusible (26) pour maintenir le volet en position d'ouverture.

International Class: A62C2/06; A62C2/12; A62C2/24; F16L5/04
Cooperative Patent Class: A62C2/065; A62C2/12; A62C2/242; F16L5/04
Family Information

Patent Number	Publication Date	Application Number	Application Date
EP3342466 A1	20180704	EP20160306835	20161228

Priority Numbers: EP20160306835 [20161228]
Probable Patent Assignee: SOLETANCHE FREYSSINET
Assignees: SOLETANCHE FREYSSINET
Inventors: RAILLARD VINCENT; SANGOUARD GILLES
Agent(s): CABINET PLASSERAUD

Designated States: AL; AT; BA; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; ME; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR



7. Family 54966663 (FR2989009 A1)

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Title

[EN] DEVICE FOR BORING E.G. SLAB, BY CORING FROM UPPER SURFACE OF PART, HAS RESERVE MECHANISM THAT IS ARRANGED TO BE CONNECTED TO FASTENER INSIDE WALL WHILE CROSSING TOOL SO THAT RESERVE MECHANISM IS ROTATED WITH BORING TOOL TO RETAIN CORE

Abstract

[EN] The device has a boring tool (1) e.g. crown, comprising a wall (4). The wall has a cylindrical form in a lower portion around a central axis (Y-Y'), where the wall ends in a side at its lower end. A drive system is utilized for actuating the boring tool in rotation round the central axis. A fastener (9) is utilized for fixing a core (6) in a part e.g. slab, by the boring tool. A reserve mechanism (2) is arranged to be connected to the fastener inside the wall while crossing the tool so that the reserve mechanism is rotated with the boring tool to retain the core. An independent claim is also included for a boring method.

International Class: B23B41/00; B28D1/14

Cooperative Patent Class: B23B2226/75; B23B51/044; B28D1/041

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	FR2989009 A1	20131011	FR20120053149	20120405
	FR2989009 B1	20150227	FR20120053149	20120405

Priority Numbers: FR20120053149 [20120405]

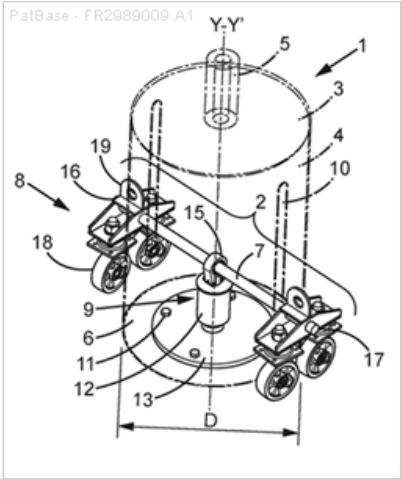
Probable Patent Assignee: SOLETANCHE FREYSSINET

Assignees: SOLETANCHE FREYSSINET

Inventors: COSTES CHRISTIAN; TERMENS FLORIAN; CONNESSON MICAEL

Non Std Inventors: MICAEL CONNESSON; FLORIAN TERMENS; CHRISTIAN COSTES

Agent(s): CABINET PLASSERAUD; PLASSERAUD IP



8. Family 75159989 (FR3076905 A1)

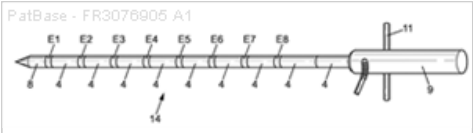
[View in PatBase](#)

Title

[MT] Probe FOR MEASURING ELECTRICAL RESISTIVITY OF A MEDIUM

Abstract

[MT] The invention relates to a probe for measuring resistivity of a medium configured to be inserted into said medium, said probe comprising at least four electrodes spaced from each other and support a body of each electrode.



International Class: G01N27/00; G01N27/04

Cooperative Patent Class: G01N27/20; G01N33/24; G01V3/20

Family Information

Patent Number	Publication Date	Application Number	Application Date
FR3076905 A1	20190719	FR20180050394	20180118

Priority Numbers: FR20180050394 [20180118]

Probable Patent Assignee: SOLETANCHE FREYSSINET

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Agent(s): CABINET PLASSERAUD

9. Family 63132369 (FR3032476 A1)

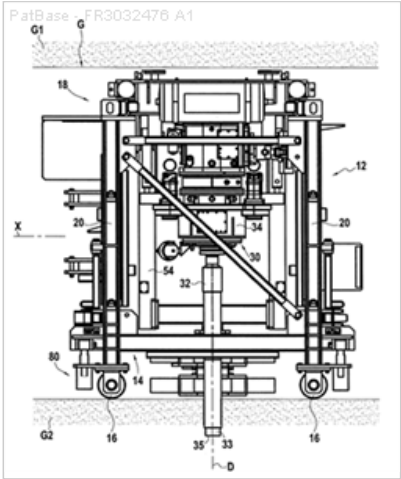
[View in PatBase](#)

Title
[MT] MACHINE VIBRATION DRILLING GALLERY

Abstract
[MT] The invention relates to a drilling machine (10) to achieve a drilling in a gallery having walls, the drilling machine comprising: a drilling head (30) connects a drill pipe (32), a chassis (12) carrying the drill head, clamping means for bearing against at least one of the walls of the gallery to maintain in place the drilling machine during the drilling operation. According to the invention, the drilling head (30) comprises a vibration generator (34) for generating longitudinal vibration along the drill pipe.

International Class: E21B1/12; E21B7/02; E21B7/24; E21F17/00

Cooperative Patent Class: E21B7/024; E21B7/24



Family Information

Patent Number	Publication Date	Application Number	Application Date
FR3032476 A1	20160812	FR20150051015	20150209
FR3032476 B1	20200529	FR20150051015	20150209

Priority Numbers: FR20150051015 [20150209]
Probable Patent Assignee: SOLETANCHE FREYSSINET
Assignees: SOLETANCHE FREYSSINET
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Non Std Inventors: PASCAL BOULADE
Agent(s): CABINET BEAU DE LOMENIE

10. Family 58498003 (WO15019017 A2)

[View in PatBase](#)

Title
[EN] SEALING DEVICE AND STRUCTURE FOR A REINFORCED CONCRETE ELEMENT COMPRISING SAID DEVICE

Abstract
[EN] A sealing device (90) for a moulded reinforced concrete element in the ground comprises at least one seal (30) extending in a main direction of the device and linking means (40) rigidly connected to the seal (30) and suitable for being linked to a reinforcing cage of the reinforced concrete element, said linking means (40) being suitable for adjusting the width of the sealing device (90). The sealing device can be included in a structure (20) that further comprises a reinforcing cage (22), the sealing device being fastened to the reinforcing cage (22) and the linking means (40) of said device being suitable for adjusting the spacing distance between the seal and the reinforcing cage.

International Class: E02D17/13; E02D29/16; E02D5/14; E02D5/18

Cooperative Patent Class: E02D17/13; E02D29/16

Family Information

	Patent Number	Publication Date	Application Number	Application Date
Red	DE602014015478 D1	20171116	DE201460015478T	20140805
Green	EP3030721 A2	20160615	EP20140790179	20140805
Green	EP3030721 B1	20171004	EP20140790179	20140805
Green	ES2654798 T3	20180215	ES20140790179T	20140805
Red	FR3009566 A1	20150213	FR20130057821	20130806
Red	FR3009566 B1	20150828	FR20130057821	20130806
Green	HU035784 T2	20180528	HU20140790179T	20140805
Green	TR201721454 T4	20180122	TR20170021454T	20140805
Red	WO15019017 A2	20150212	WO2014FR52032	20140805
Red	WO15019017 A3	20150409	WO2014FR52032	20140805

Priority Numbers: FR20130057821 [20130806]; EP20140790179 [20140805]; WO2014FR52032 [20140805]

Probable Patent Assignee: SOLETANCHE FREYSSINET

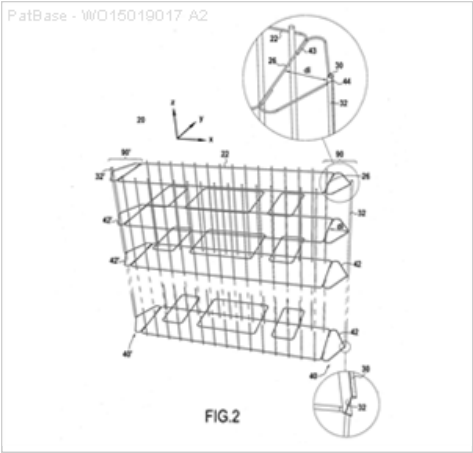
Assignees: SOLETANCHE FREYSSINET

Inventors: CASCARINO SARA; VIARGUES DANIEL; ESNALT ANNETTE

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



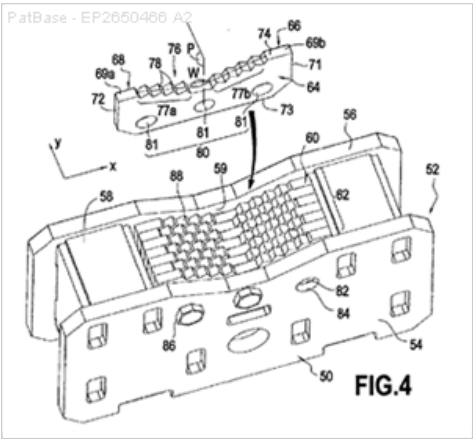
11. Family 54955050 (EP2650466 A2)

[View in PatBase](#)

Title
[EN] CLAMPING JAW AND CLAMPING DEVICE COMPRISING SUCH A JAW

Abstract
[EN] The jaw (50) has an insertion zone intended to make contact with a tightening element, and a stacking part (62) stacking a set of distinct plates (60), where a wafer (68) of each plate includes a toothed portion (76). The toothed portions are arranged to reconstitute the insertion zone of the jaw. The plate is provided with a fastener (80) including a clamp hole (81). The clamp hole is aligned with another clamp hole to form a passage housing (82) traversing the stacking part directly through and adapted to receive a retainer pin (86) i.e. bolt.

International Class: B25B13/50; E21B19/16
Cooperative Patent Class: B25B13/5016; E21B19/161



Family Information

Patent Number	Publication Date	Application Number	Application Date
DE602013038484 D1	20180705	DE201360038484T	20130415
EP2650466 A2	20131016	EP20130163716	20130415
EP2650466 A3	20170426	EP20130163716	20130415
EP2650466 B1	20180606	EP20130163716	20130415
FR2989413 A1	20131018	FR20120053418	20120413
FR2989413 B1	20141219	FR20120053418	20120413

Priority Numbers: FR20120053418 [20120413]; EP20130163716 [20130415]
Probable Patent Assignee: SOLETANCHE FREYSSINET
Assignees: SOLETANCHE FREYSSINET
Inventors: COUDRY MICHEL; PHILIPPE FRANCOIS
Non Std Inventors: MICHEL COUDRY; FRANCOIS PHILIPPE
Agent(s): CBDL PATENTANWAELTE; HENRICH CHRISTEL; CABINET BEAU DE LOMENIE; CABINET BEAU DE LOMENIE
Designated States: AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME

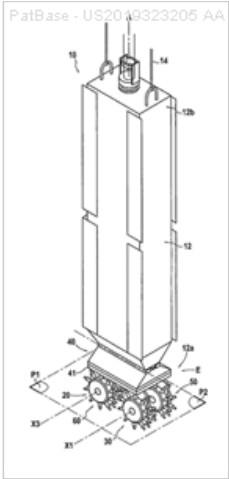
12. Family 70087219 (US2019323205 AA)

[View in PatBase](#)

Title
[EN] BORING MACHINE PROVIDED WITH FOUR BORING BODIES

Abstract
[EN] The invention provides a boring machine (10) for making a trench (T) in soil (S), the machine comprising a frame (12) that extends along a longitudinal direction (A), said frame (12) carrying a boring device (20) provided with four rotary boring members driven by four motors about axes of rotation that are stationary relative to one another.

International Class: E02D17/13; E02F3/20; E05F5/08; E02D5/20; E02F5/02; E02F5/08; E02F3/24; E02D5/00; E02F5/14; E02F9/22
Cooperative Patent Class: E02D17/13; E02D2250/0038; E02D5/00; E02F3/205; E02F3/246; E02F3/475; E02F5/08; E02F5/145; E02F7/06; E02F9/2292



Family Information

Patent Number	Publication Date	Application Number	Application Date
CA3045583 AA	20190530	CA20173045583	20171213
CA3045583 C	20211221	CA20173045583	20171213
CN110114534 A	20190809	CN201780077430	20171213
EP3555374 A1	20191023	EP20170825903	20171213
EP3555374 B1	20230322	EP20170825903	20171213
FR3060046 A1	20180615	FR20160062446	20161214
FR3060046 B1	20201030	FR20160062446	20161214
HK40010140 A1	20200703	HK20190133578	20191213
JP2020502399 T2	20200123	JP20190531742T	20171213
JP7084928 B2	20220615	JP20190531742T	20171213
KR102357851 B1	20220203	KR20197020544	20171213
KR20190096389 A	20190819	KR20197020544	20171213
US11427985 BB	20220830	US20190467536	20171213
US2019323205 AA	20191024	US20190467536	20171213
WO18109370 A1	20180621	WO2017FR53532	20171213

Priority Numbers: FR20160062446 [20161214]; WO2017FR53532 [20171213]

Probable Patent Assignee: SOLETANCHE FREYSSINET

Assignees: SOLETANCHE FREYSSINET

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

13. Family 51295877 (US2013255170 AA)

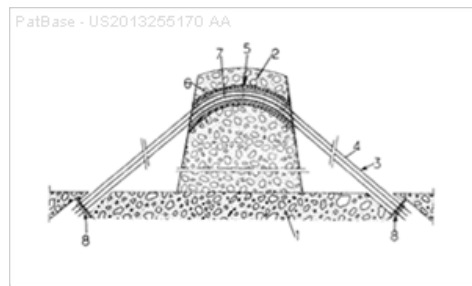
[View in PatBase](#)

Title

[EN] DEVICE FOR DIVERTING A STRUCTURAL CABLE, SUCH AS A GUY LINE, AND CONSTRUCTION COMPRISING SAME

Abstract

[EN] The structural cable has several stretched tendons (4). It is diverted in a device comprising a body crossed by conduits (10). Each conduit has a wall to guide one of the tendons along a curved path. The wall of the conduit has a tendon support area (11) directed toward the interior of the curve of the path. This support area presents, in the center portion of the conduit and transverse to the curved path, a section in the shape of a circular arc whose radius is appreciably equal to half the external diameter of the tendon. The central portion of the conduit has a cross-section enlarged outside the support area.



International Class: E01D19/14; E04C5/08; E01D; E04C; E01D11/04; E01D19/16

Cooperative Patent Class: E01D19/14; E04C5/08

US Class: 14/18; 14/21; 14/22; 14/23; 52/223.1; 52/223.13

Family Information

Patent Number	Publication Date	Application Number	Application Date
CA2820024 AA	20130604	CA20112820024	20111207
CA2820024 C	20181211	CA20112820024	20111207
CN103476993 A	20131225	CN201180065096	20111207
CN103476993 B	20160406	CN201180065096	20111207
DE602011034953 D1	20170323	DE201160034953T	20111207
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WO12076815 A3	20120809	WO2011FR52897	20111207

Priority Numbers: FR20100060270 [20101208]; WO2011FR52897 [20111207]; EP20110811045 [20111207]

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

14. Family 56879760 (US2017067215 AA)

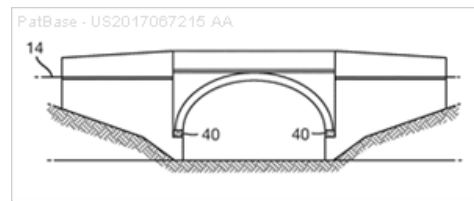
[View in PatBase](#)

Title

[EN] METHOD OF ENLARGING THE SPACE BENEATH A MASONRY ARCH BRIDGE, AND A MASONRY ARCH BRIDGE

Abstract

[EN] A method of enlarging the space beneath a masonry arch bridge which includes a masonry arch and a spandrel wall at each end of the masonry arch includes forming a movable portion of the masonry arch bridge by cutting the spandrel walls to form a cut on each side of the masonry arch. A lifting force is applied to the masonry arch to raise the masonry arch to a raised position. The masonry arch is then secured in the raised position.



International Class: E01D22/00; E01D4/00; E04G23/02

Cooperative Patent Class: E01D22/00; E01D4/00; E04G23/0233

US Class: 1/1; 14/77.1

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	BR112016025601 A2	20170815	BR20161125601	20150501
	CA2947639 AA	20161101	CA20152947639	20150501
	CN106536824 A	20170322	CN201580035706	20150501
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	RU2016146359 A	20180605	RU20160146359	20150501
	RU2016146359 A3	20181212	RU20160146359	20150501
	RU2690988 C2	20190607	RU20160146359	20150501
	TR201808147 T4	20180723	TR20180008147T	20150501
	US10011962 BB	20180703	US20150308010	20150501
	US2017067215 AA	20170309	US20150308010	20150501
	WO15166103 A1	20151105	WO2015EP59630	20150501

Priority Numbers: GB20140007868 [20140502]; GB20140020921 [20141125]; GB20150001828 [20150204]; WO2015EP59630 [20150501]; EP20150719719 [20150501]; RU20160146359 [20150501]

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

15. Family 74861445 (EP3502414 A1)

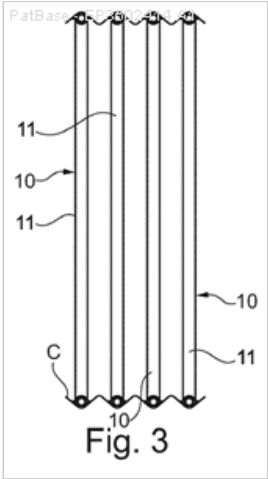
[View in PatBase](#)

Title
[EN] METHOD FOR REINFORCING A STRUCTURE AND SYSTEM FOR IMPLEMENTING SAME

Abstract
[FR] La presente invention concerne un procede de renforcement d'un ouvrage tel qu'une buse, comportant les etapes consistant a:- proceder a un releve de la geometrie de l'ouvrage a renforcer,- realiser au moins en fonction de ce releve des anneaux de soutienement (10) de dimensions adaptees, chaque anneau de soutienement etant ferme par au moins un element de liaison imposant un ecartement ajustable entre deux regions adjacentes de l'anneau reliees par cet element de liaison,- regler l'ecartement entre lesdites regions adjacentes pour mettre en compression l'anneau au contact de l'ouvrage.

International Class: E01F5/00; E03F3/04; E03F3/06; F16L57/02; E21D11/18; E21D11/24; E02B9/02; E21D11/14

Cooperative Patent Class: E21D11/18; E21D11/24



Family Information

Patent Number	Publication Date	Application Number	Application Date
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CA3028187 C	20201215	CA20183028187	20181219
DE602018042795 D1	20221201	DE201860042795T	20181221
EP3502414 A1	20190626	EP20180215535	20181221
EP3502414 B1	20221109	EP20180215535	20181221
FR3075859 A1	20190628	FR20170063013	20171222
FR3075859 B1	20200717	FR20170063013	20171222

Priority Numbers: FR20170063013 [20171222]; EP20180215535 [20181221]

Probable Patent Assignee: SOLETANCHE FREYSSINET

Assignees: SOLETANCHE FREYSSINET

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Non Std Inventors: JACKY LEBOEUF; NAJEEB SABIR

Agent(s): ROBIC; NONY; CABINET NONY

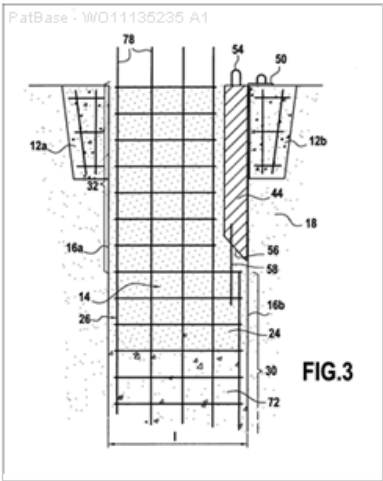
Designated States: AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME

16. Family 49885905 (WO11135235 A1)

[View in PatBase](#)

Title
[EN] MOLDED WALL HAVING PREFABRICATED CLADDING

Abstract
[EN] The present invention relates to a method for creating a molded wall, said method including at least the steps that involve: forming, in the ground, an elongate excavation (14), having vertical walls that mark the border of an area (18) to be cleared; positioning, in the excavation (14), an assembly that includes at least one reinforcement cage (26) having an L-shaped profile and comprising a first portion (30), having a width suited to the width of the excavation (14) and intended to be positioned in a manner parallel to the base of the excavation (14), and a second portion (32), having a width less than that of said first portion (30) and intended for standing against the longitudinal wall (16a) of the excavation (14) located on the side opposite the area to be cleared (18), said assembly also including at least one piece of prefabricated cladding (44) intended to be positioned against the longitudinal wall (16b) of said excavation (14) located on the side of the area (18) to be cleared; and pouring concrete into said excavation (14) so as to form a molded wall including said prefabricated cladding (44). The present invention also relates to a molded wall capable of being created by means of such a method.



International Class: E02D5/20; E02D17/00; E02D29/02

Cooperative Patent Class: E02D5/20

Family Information

Patent Number	Publication Date	Application Number	Application Date
AU2011247163 AA	20111103	AU20110247163	20110420
AU2011247163 BB	20160804	AU20110247163	20110420
DE602011009625 D1	20141016	DE201160009625T	20110420
EP2563975 A1	20130306	EP20110720561	20110420
EP2563975 B1	20140903	EP20110720561	20110420
ES2525082 T3	20141217	ES20110720561T	20110420
FR2959253 A1	20111028	FR20100053178	20100426
FR2959253 B1	20121005	FR20100053178	20100426
PL2563975 T3	20150331	PL20110720561T	20110420
WO11135235 A1	20111103	WO2011FR50915	20110420

Priority Numbers: FR20100053178 [20100426]; WO2011FR50915 [20110420]; EP20110720561 [20110420]

Probable Patent Assignee: SOLETANCHE FREYSSINET

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Non Std Inventors: XAVIER ILTISS; MICHEL GUICHERD; PATRICK LEMAIRE

Agent(s): FREEHILLS PATENT ATTORNEYS; SPRUSON AND FERGUSON; CBDL PATENTANWALTE; HENRICH CHRISTEL; CABINET BEAU DE LOMENIE; VEIGA MIKEL; CABINET BEAU DE LOMENIE; BARBIN LE BOURHIS JOEL ET AL

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

17. Family 84994096 (US2021148706 AA)

[View in PatBase](#)

Title
[EN] AQUISITION PROCESS OF AT LEAST ONE SCENE

Abstract
[EN] A method for acquiring at least one scene, the method including a) positioning at least three different targets at different target locations of the scene, b) taking digital images of the scene and the target by means of an imaging device comprising at least one camera, the image-taking locations being chosen such that at least two of the images intersect, and c) scanning the scene and the targets by means of an optical remote detection device, each target including: a characteristic pattern identifiable by digital analysis of the scan data, called "pattern to be scanned", and a characteristic pattern identifiable by photogrammetry, called "photogrammetric pattern".

International Class: G01C11/02; G01S17/89; G01C11/06; G01C15/02; G06K9/32; G01C11/04; G06K9/20; G06K9/62; G06T7/521; G06T7/55; G06T7/73

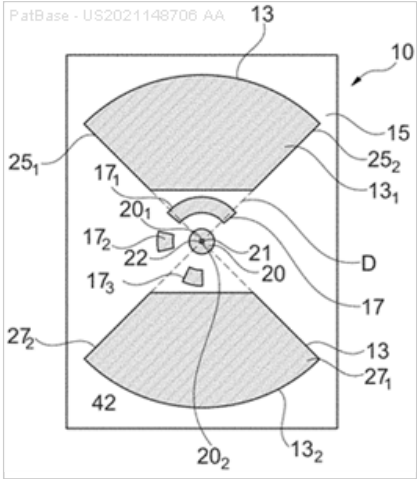
Cooperative Patent Class: G01C11/025; G01C11/04; G01C11/06; G01C15/02; G06F18/25; G06F18/251; G06T2207/10028; G06T2207/30184; G06T7/521; G06T7/55; G06T7/74; G06V10/245; G06V10/803; G06V20/176; G06V20/653; G06V2201/12

Family Information

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Green	EP3822581 A1	20210519	EP20200208272	20201118
Green	FR3103268 A1	20210521	FR20190012851	20191118
Green	FR3103268 B1	20220318	FR20190012851	20191118
Red	US2021148706 AA	20210520	US20200951429	20201118

Priority Numbers: FR20190012851 [20191118]
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Non Std Assignees: PERAL JOSE; FRANCOIS PIERRE; HOVHANESSIAN GILLES
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Non Std Inventors: JOSE PERAL; PIERRE FRANCOIS; GILLES HOVHANESSIAN
Agent(s): ROBIC; NONY

Designated States: AL; AT; BA; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; ME; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR



18. Family 49976388 (US2012000148 AA)

[View in PatBase](#)

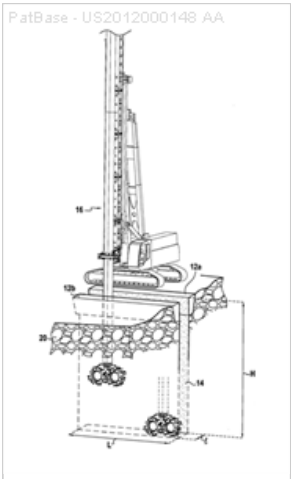
Title
[EN] WALL FORMED IN SOIL, THE WALL INCLUDING A HOLLOW PREFABRICATED ELEMENT, AND A METHOD OF MAKING SUCH A WALL

Abstract
[EN] The present invention relates to a method of making a wall in soil, the method comprising at least the steps consisting in forming a trench in the soil; filling the trench with a self-hardening material; supplying at least one prefabricated element comprising two plates connected together by connection means; and positioning the prefabricated element in the trench filled with the self-hardening material. The invention also provides a wall that can be obtained by this method.

International Class: E02D5/20; E02D17/13; E02D5/18; E04B2/84; E04B2/86; E02D29/05

Cooperative Patent Class: E02D17/13; E02D5/18

US Class: 1/1; 52/169.1; 52/169.100P; 52/741.13; 52/741.130S



Family Information

	Patent Number	Publication Date	Application Number	Application Date
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	AU2011202417 BB	20160616	AU20110202417	20110524
	DE602011014257 D1	20150416	DE201160014257T	20110523
	EP2390420 A1	20111130	EP20110167120	20110523
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	FR2960570 A1	20111202	FR20100054019	20100525
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Priority Numbers: FR20100054019 [20100525]; EP20110167120 [20110523]

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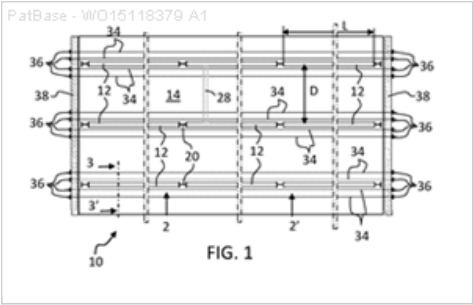
Designated States: AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME

19. Family 60055455 (WO15118379 A1)

[View in PatBase](#)

Title
[EN] FIRE RESISTANT STEEL-CONCRETE FLOOR STRUCTURE

Abstract
[EN] A steel-concrete floor structure (10), designed for having a prescribed fire resistance when exposed to a prescribed fire scenario in a fire compartment immediately below the steel-concrete floor structure (10), comprises horizontally extending structural steel members (12) and a concrete slab (14). In normal operation, these structural steel members (12) have to take the main part of the tensile stresses generated by the bending moment. It further comprises a plurality of tension members (34), each of these tension members (34) horizontally extending through the concrete slab (14) between two anchor points. These anchor points (36, 36', 36'', 36''') are arranged in one or more fire resistant bearing structures (38, 38', 38'') within the fire compartment, and/or in one or more external bearing structures (38'''), so that, when the strength and stiffness of the horizontal structural steel members (12) substantially diminish in the prescribed fire scenario, the tension members (34) extending through the concrete slab (14) are capable of supporting the loaded slab (14) by catenary effect and of limiting the deflection thereof.



International Class: E04B5/32; E04B5/36; E04B5/40
Cooperative Patent Class: E04B1/941; E04B5/32; E04B5/36; E04B5/40; E04C3/294; E04C5/08; E04C5/10

Family Information

Patent Number	Publication Date	Application Number	Application Date
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Priority Numbers: EP20140705422 [20140205]; WO2014IB58803 [20140205]
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Designated States: AL; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; BA; ME; AE; AG; AM; AO; AU; AZ; BB; BF; BH; BJ; BN; BR; BW; BY; BZ; CA; CF; CG; CI; CL; CM; CN; CO; CR; CU; DM; DO; DZ; EC; EG; GA; GD; GE; GH; GM; GN; GQ; GT; GW; HN; ID; IL; IN; IR; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LY; MA; MD; MG; ML; MN; MR; MW; MX; MY; MZ; NA; NE; NG; NI; NZ; OM; PA; PE; PG; PH; QA; RU; RW; SA; SC; SD; SG; SL; SN; ST; SV; SY; SZ; TD; TG; TH; TJ; TM; TN; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW

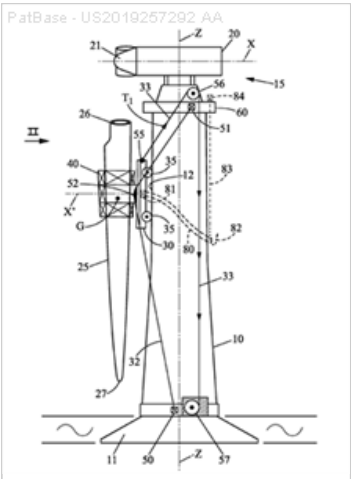
20. Family 67933674 (US2019257292 AA)

[View in PatBase](#)

Title
[EN] METHOD FOR HANDLING A WIND TURBINE BLADE

Abstract
[EN] In order to handle a wind turbine blade between the ground and a rotor of an electric generator mounted on a nacelle (15) at the top of a tower (10), the blade (25) is retained in a support (40) that is mounted on a trolley (30) arranged against the tower. The trolley is moved and guided along the tower using at least one cable (32, 33) which is angled in such a way as to apply a force having a horizontal component in the direction of the tower to the trolley.

International Class: F03D13/10; F03D1/00
Cooperative Patent Class: F03D13/10; F05B2230/60; F05B2230/61; Y02E10/72; Y02P70/50



Family Information

Patent Number	Publication Date	Application Number	Application Date
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Priority Numbers: FR20160055613 [20160616]; WO2016FR53319 [20161209]
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Designated States: AL; AT; BA; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; ME; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; AE; AG; AM; AO; AU; AZ; BB; BF; BH; BJ; BN; BR; BW; BY; BZ; CA; CF; CG; CI; CL; CM; CN; CO; CR; CU; DJ; DM; DO; DZ; EC; EG; GA; GD; GE; GH; GM; GN; GQ; GT; GW; HN; ID; IL; IN; IR; JP; KE; KG; KH; KM; KN; KP; KR; KW; KZ; LA; LC; LK; LR; LS; LY; MA; MD; MG; ML; MN; MR; MW; MX; MY; MZ; NA; NE; NG; NI; NZ; OM; PA; PE; PG; PH; QA; RU; RW; SA; SC; SD; SG; SL; SN; ST; SV; SY; SZ; TD; TG; TH; TJ; TM; TN; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW

21. Family 74262286 (US2021172116 AA)

[View in PatBase](#)

Title

[EN] SHEATH FOR A STRUCTURAL CABLE OF A CONSTRUCTION WORK, METHODS OF INSTALLATION AND MAINTENANCE

Abstract

[EN] The proposed sheath is for a structural cable (10) having a path between an upper anchorage (16) and a lower anchorage (17). It comprises sheath segments (21) assembled along the path of the structural cable, at least one supporting rope (30) extending along the sheath segments and having an upper end connected to the construction work adjacent to the upper anchorage, and connectors (32) for connecting the sheath segments to the at least one supporting rope. The connectors (32) are configured to block relative upward movement of the supporting rope (30) with respect to the sheath segments (21) and to allow relative downward movement of the supporting rope with respect to the sheath segments.

International Class: D07B1/00; E01D19/16; D07B1/16

Cooperative Patent Class: D07B1/00; D07B1/16; D07B2201/2091; D07B2501/203; E01D19/14; E01D19/16; E04C5/08; E04C5/12; E04G21/12

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Priority Numbers: WO2017IB01514 [20171103]; EP20170817085 [20171103]

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

