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[EPODOC: SS 1] Method and concrete and tower and hollow

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[SS 2] * and PD<2014-10-30

Results in EPODOC 64

[SS 3] ..v

[EPODOC: SS 3] ..li 1-10



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PN - [KR20140076817](#) A 20140623

PNFP - KR101445286B B1 20140926

PR - KR20120145290 20121213

AP - KR20120145290 20121213

DT - I

CT - || STSE (B1)

[KR20010008782](#) A 20010205 [] (KOREA NAT HOUSING CORP [KR]);

[JP2008274570](#) A 20081113 [] (JFE ENG KK, et al)

PA - (A)
SAMSUNG C&T CORP [KR]

TI - (A)
PC-SF **METHOD** FOR CONSTRUCTION DURATION REDUCTION OF TYPICAL FLOOR

- (B1)

PC-SF **Method** for Construction Duration Reduction of Typical Floor

AB - (A)

The present invention relates to a precast **concrete** speedy frame (PC-SF) construction **method** capable of reducing the construction period of a typical floor having a plane identically applied inside a high-rise building which uses a structure form to integrate a wall structure with a Rahmen structure and makes the construction plan be implemented towards the direction of lifting a load, at its minimum, from a **tower** crane. In this sense, whereby the **method** actively applies industrial materials such as PC to a column, a beam, a slab and stairs; the **method** is named as the PC-SF construction **method**. According to the present invention, the PC-SF construction **method** comprises: a typical floor design step to design a typical floor to be composed of a core, a Rahmen structure, bearing walls of both sides of the typical floor and curtain walls of the front and rear sides of the typical floor; and a typical floor construction step to construct a shear wall of the core and the bearing walls of both sides of the typical floor using an auto-climbing form, and the Rahmen structure and the stairs inside the core using a PC column, a PC beam or a steel frame beam, a **hollow** core slab (HCS), and PC stairs.

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PN - [US2014157715](#) A1 20140612

PNFP - US9657722 B2 20170523

PR - DE201110107804 20110717; WO2012EP03007 20120717

AP - US201214232623 20120717

DT - **

CT - || R141 (A1)

[US3429758](#) A 19690225 [] (YOUNG EDWIN C);
[US3520749](#) A 19700714 [] (RUBENSTEIN DAVID);
[US3742985](#) A 19730703 [] (RUBENSTEIN D);
[US4049022](#) A 19770920 [] (FARAHAR ROBERT M);
[US4283446](#) A 19810811 [] (MCLAIN PHILIPPE H);
[US4314798](#) A 19820209 [] (PETTERSSON JOHN P);
[US4514245](#) A 19850430 [] (CHABRIER GILBERT [FR]);
[US4786341](#) A 19881122 [] (KOBATAKE KATSURO [JP], et al);
[US5043033](#) A 19910827 [] (FYFE EDWARD R [US]);
[US5133510](#) A 19920728 [] (DAVIS EDGAR A [US], et al);
[US5194110](#) A 19930316 [] (FAWLEY NORMAN C [US]);
[US5218810](#) A 19930615 [] (ISLEY JR FREDERICK P [US]);
[US5555696](#) A 19960917 [] (MORRISON III WILLIAM S [US], et al);
[US5599599](#) A 19970204 [] (MIRMIRAN AMIR [US], et al);
[US5633057](#) A 19970527 [] (FAWLEY NORMAN C [US]);
[US5649398](#) A 19970722 [] (ISLEY JR FREDERICK P [US], et al);
[US5946880](#) A 19990907 [] (MORRISON III WILLIAM S [US], et al);
[US6048426](#) A 20000411 [] (PRATT WILLIAM FOSSUM [US]);
[US6123485](#) A 20000926 [] (MIRMIRAN AMIR [US], et al);
[US6189286](#) B1 20010220 [] (SEIBLE FRIEDER [US], et al);
[US2005138877](#) A1 20050630 [] (INOUE KENJI [JP], et al);
[US2005284032](#) A1 20051229 [] (IGARASHI SHUNICHI [JP]);
[US2006070338](#) A1 20060406 [] (PANTELIDES CHRIS P [US], et al);
[US2008184654](#) A1 20080807 [] (POLYZOIS DIMOS [CA], et al);
[US2008313972](#) A1 20081225 [] (GROB GUSTAV R [CH], et al);

[US2009000227](#) A1 20090101 [] (JAKUBOWSKI ALEXANDER [DE], et al);
[US2009025304](#) A1 20090129 [] (IRNIGER PHILIPP [CH], et al);
[US2009307998](#) A1 20091217 [] (ZAVITZ BRYANT A [US], et al);
[US2010212808](#) A1 20100826 [] (HORNE LOUIS KEVIN [US]);
[US2010325986](#) A1 20101230 [] (GARCIA MAESTRE IVAN [ES], et al);
[US7906191](#) B2 20110315 [] (PRATT WILLIAM F [US]);
[US2011113708](#) A1 20110519 [] (SKJAERBAEK POUL [DK], et al);
[US7963747](#) B2 20110621 [] (CAIRO RONALD R [US]);
[US2011138704](#) A1 20110616 [] (BAGEPALLI BHARAT SAMPATHKUMARAN [US], et al);
[US2011223272](#) A1 20110915 [] (STIESDAL HENRIK [DK]);
[US2011239564](#) A1 20111006 [] (ZHENG DANIAN [US], et al);
[US2012036798](#) A1 20120216 [] (HOLGER GIEBEL [DE]);
[US2012047840](#) A1 20120301 [] (GREGOR PRASS [DE]);
[US2012141295](#) A1 20120607 [] (MARTINEZ DE CASTANEDA FRANCISCO JAVIER [ES], et al);
[US2012174522](#) A1 20120712 [] (GREGOR PRASS [DE]);
[WO9809042](#) A1 19980305 [] (SACAC SCHLEUDERBETONWERK AG [CH], et al);
[US3652755](#) A 19720328 [] (IORNIS MARTIN E, et al);
[US3928104](#) A 19751223 [] (LUCKETT PETER ROBERT, et al);
[US4031708](#) A 19770628 [] (HANSON RAYMOND A);
[US4883416](#) A 19891128 [] (TOMMINEN HANNU [FI]);
[US5024557](#) A 19910618 [] (IORNIS MARTIN E [US]);
[US5440845](#) A 19950815 [] (TADROS MAHER K [US], et al);
[US2007071550](#) A1 20070329 [] (SHAW RONALD D [US], et al);
[US2007193674](#) A1 20070823 [] (HOURAHANE DONALD H [ZA]);
[US2007234652](#) A1 20071011 [] (SHAW RONALD D [US], et al);
[US2011315691](#) A1 20111229 [] (SKOVHOLT OTTO [NO]);
[US2012058299](#) A1 20120308 [] (SERWIN BO [DK]);
[US1490217](#) A 19240415 [] (PAUL KIRCHER);
[US2425079](#) A 19470805 [] (KURT BILLIG);
[US3581780](#) A 19710601 [] (ONO YOSHIZO, et al);
[US3664287](#) A 19720523 [] (DUFF RAYMOND A);
[US3949144](#) A 19760406 [] (DUFF RAYMOND A);
[US4193750](#) A 19800318 [] (NIELSON JAY P [US]);
[US4217080](#) A 19800812 [] (HAMANN WALDEMAR [PL], et al);
[US4320075](#) A 19820316 [] (NIELSON JAY P);
[US2003189265](#) A1 20031009 [] (SANDQVIST LEO [FI]);
[US2009049782](#) A1 20090226 [] (LONG SR ROBERT T [US])

- || STSE (B2)

[US1490217](#) A 19240415 [] (PAUL KIRCHER);
[US2425079](#) A 19470805 [] (KURT BILLIG);
[US3429758](#) A 19690225 [] (YOUNG EDWIN C);
[US3520749](#) A 19700714 [] (RUBENSTEIN DAVID);
[US3581780](#) A 19710601 [] (ONO YOSHIZO, et al);
[US3652755](#) A 19720328 [] (IORNIS MARTIN E, et al);
[US3664287](#) A 19720523 [] (DUFF RAYMOND A);
[US3742985](#) A 19730703 [] (RUBENSTEIN D);
[US3928104](#) A 19751223 [] (LUCKETT PETER ROBERT, et al);
[US3949144](#) A 19760406 [] (DUFF RAYMOND A);
[US4031708](#) A 19770628 [] (HANSON RAYMOND A);

[US4049022](#) A 19770920 [] (FARAHAR ROBERT M);
[US4193750](#) A 19800318 [] (NIELSON JAY P [US]);
[US4217080](#) A 19800812 [] (HAMANN WALDEMAR [PL], et al);
[US4283446](#) A 19810811 [] (MCLAIN PHILIPPE H);
[US4314798](#) A 19820209 [] (PETTERSSON JOHN P);
[US4320075](#) A 19820316 [] (NIELSON JAY P);
[US4514245](#) A 19850430 [] (CHABRIER GILBERT [FR]);
[US4786341](#) A 19881122 [] (KOBATAKE KATSURO [JP], et al);
[US4883416](#) A 19891128 [] (TOMMINEN HANNU [FI]);
[US5024557](#) A 19910618 [] (IORNS MARTIN E [US]);
[US5043033](#) A 19910827 [] (FYFE EDWARD R [US]);
[US5133510](#) A 19920728 [] (DAVIS EDGAR A [US], et al);
[US5194110](#) A 19930316 [] (FAWLEY NORMAN C [US]);
[US5218810](#) A 19930615 [] (ISLEY JR FREDERICK P [US]);
[US5440845](#) A 19950815 [] (TADROS MAHER K [US], et al);
[US5555696](#) A 19960917 [] (MORRISON III WILLIAM S [US], et al);
[US5599599](#) A 19970204 [] (MIRMIRAN AMIR [US], et al);
[US5633057](#) A 19970527 [] (FAWLEY NORMAN C [US]);
[US5649398](#) A 19970722 [] (ISLEY JR FREDERICK P [US], et al);
[US5946880](#) A 19990907 [] (MORRISON III WILLIAM S [US], et al);
[US6048426](#) A 20000411 [] (PRATT WILLIAM FOSSUM [US]);
[US6123485](#) A 20000926 [] (MIRMIRAN AMIR [US], et al);
[US6189286](#) B1 20010220 [] (SEIBLE FRIEDER [US], et al);
[US7906191](#) B2 20110315 [] (PRATT WILLIAM F [US]);
[US7963747](#) B2 20110621 [] (CAIRO RONALD R [US]);
[US2003189265](#) A1 20031009 [] (SANDQVIST LEO [FI]);
[US2005138877](#) A1 20050630 [] (INOUE KENJI [JP], et al);
[US2005284032](#) A1 20051229 [] (IGARASHI SHUNICHI [JP]);
[US2006070338](#) A1 20060406 [] (PANTELIDES CHRIS P [US], et al);
[US2007071550](#) A1 20070329 [] (SHAW RONALD D [US], et al);
[US2007193674](#) A1 20070823 [] (HOURAHANE DONALD H [ZA]);
[US2007234652](#) A1 20071011 [] (SHAW RONALD D [US], et al);
[US2008184654](#) A1 20080807 [] (POLYZOIS DIMOS [CA], et al);
[US2008313972](#) A1 20081225 [] (GROB GUSTAV R [CH], et al);
[US2009000227](#) A1 20090101 [] (JAKUBOWSKI ALEXANDER [DE], et al);
[US2009025304](#) A1 20090129 [] (IRNIGER PHILIPP [CH], et al);
[US2009049782](#) A1 20090226 [] (LONG SR ROBERT T [US]);
[US2009307998](#) A1 20091217 [] (ZAVITZ BRYANT A [US], et al);
[US2010212808](#) A1 20100826 [] (HORNE LOUIS KEVIN [US]);
[US2010325986](#) A1 20101230 [] (GARCIA MAESTRE IVAN [ES], et al);
[US2011113708](#) A1 20110519 [] (SKJAERBAEK POUL [DK], et al);
[US2011138704](#) A1 20110616 [] (BAGEPALLI BHARAT SAMPATHKUMARAN [US], et al);
[US2011223272](#) A1 20110915 [] (STIESDAL HENRIK [DK]);
[US2011239564](#) A1 20111006 [] (ZHENG DANIAN [US], et al);
[US2011315691](#) A1 20111229 [] (SKOVHOLT OTTO [NO]);
[US2012036798](#) A1 20120216 [] (HOLGER GIEBEL [DE]);
[US2012047840](#) A1 20120301 [] (GREGOR PRASS [DE]);
[US2012058299](#) A1 20120308 [] (SERWIN BO [DK]);
[US2012141295](#) A1 20120607 [] (MARTINEZ DE CASTANEDA FRANCISCO JAVIER [ES], et al);

	US2012174522 A1 20120712 [] (GREGOR PRASS [DE]); WO9809042 A1 19980305 [] (SACAC SCHLEUDERBETONWERK AG [CH], et al)
CTNP	- R141 (A1) [] - Translation of WO 9809042A1 - STSE (B2) [] - Translation of WO 9809042A1.
CCI	- E04H12/341 ; E04H12/12 ; E04H12/16
CUI	- E04G11/20 ; F03D13/22
CCA	- Y02E10/728 ; F05B2230/00 ; F05B2240/912 ; Y10T29/49631
PA	- (A1) WAGNER PHILIPP [DE] - (B2) WAGNER PHILIPP [DE]; X-TOWER CONSRUCTIONS GMBH [DE]
TI	- (A1) Method and Sliding Form for Producing a Structure and Corresponding Structure - (B2) Method and sliding form for producing a structure and corresponding structure
AB	- (A1 B2) A load-bearing structure and a method of producing a load-bearing structure, in particular a tower of a wind energy plant, provides a hollow concrete part with an outer wall which is manufactured by several layers produced in wet-on-wet technology. The outer layer is a fine-grain concrete layer provided with a textile reinforcement, and the inner layer is made of bulk concrete.

PN - [NZ600688](#) A 20140228

PR - WO2010EP70528
20101222; EP20090306323
20091223

AP - NZ20100600688 20101222

DT - I

CCI - [E04H12/16](#) ; [E04H12/34](#) ;
[F03D13/20](#)

CCA - [Y02B10/30](#) ; [Y02E10/728](#)

PA - SOLETANCHE FREYSSINET

TI - **Tower** having a pre-stressed **concrete** column and construction **method**

AB - 600688 A **tower** comprising a **hollow** column (10) is disclosed. Pre-assembled pre-stressing cables (15) extend along the internal space of the column to enhance the strength of the **hollow** column. The pre-stressing cables comprise tendons (1) which terminate at cable terminations (20). The cable terminations bear against abutment portions (25) at upper and lower parts of the column. Each tendon is contained in a respective jacket with a protective substance. Each cable termination comprises a block (see 30, figure 3) for anchoring each tendon of a pre-stressing cable, a chamber (see 31, figure 3) filled with a protective substance, such as grease or wax, on a rear side of the block and a sealing system (see 32, figure 3) closing the chamber opposite the block. Each tendon of the pre-stressing cable extends through the sealing system and has its jacket interrupted in the chamber. The provision of a protective substance in the chamber is advantageous in that it protects the exposed tendons from

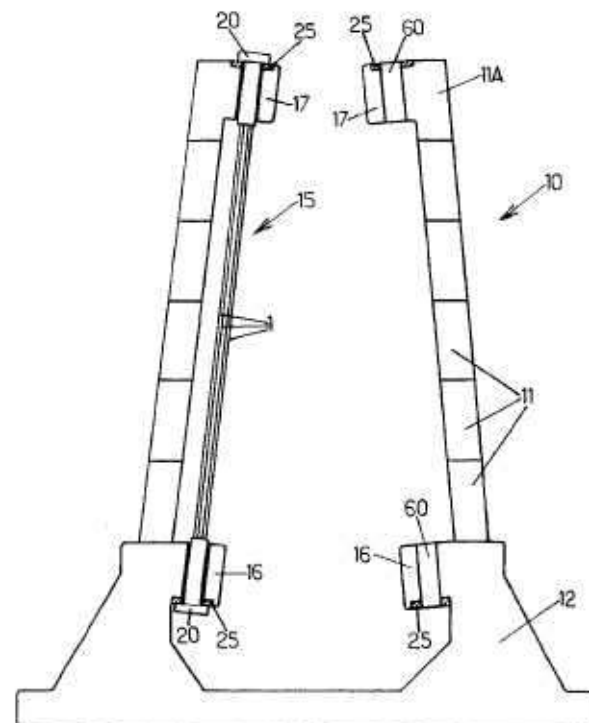


FIG.1.

corrosion during large temperature variations.
A **method** of building a **tower** is also disclosed.

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PN - [CN103422512](#) A 20131204

PNFP - CN103422512B B 20160127

PR - CN20131383408 20130829

AP - CN20131383408 20130829

DT - I

CT - || STSE (A)

[CN202073113U](#) U 20111214 [A] (SINOVEL WIND GROUP CO LTD)
[A]

[JPS59145836](#) A 19840821 [A] (NIPPON STEEL CORP)
[A]

[CN102758445](#) A 20121031 [A] (SINOVEL WIND GROUP CO LTD)
[A]

[CN201747544U](#) U 20110216 [X] (SINOVEL WIND GROUP CO LTD)
[X]

[CN102628277](#) A 20120808 [A] (HYDROCHINA HUADONG ENG CORP)
[A]

PA - (A)
HYDROCHINA HUADONG ENG CORP

TI - (A)
Replaceable embedded bolt type wind generation set **concrete** foundation and construction **method** thereof

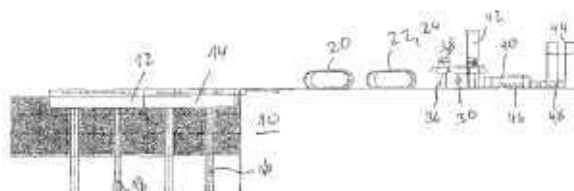
AB - (A)
The invention relates to a replaceable embedded bolt type wind generation set **concrete** foundation and a construction **method** thereof. The invention aims to provide a replaceable embedded bolt type wind generation set **concrete** foundation so as to replace a bolt and conveniently leveling and aims to simplify the integral structure and conveniently carry out construction. The invention adopts the following technical scheme that a **tower** is arranged on the replaceable embedded bolt type wind generation set **concrete** foundation and the replaceable embedded bolt type wind generation set **concrete** foundation is characterized in that the **tower** is connected with the **concrete** foundation by a **tower** flange, two rows of replaceable high-intensity prestress bolts and a bottom flange embedded in the **concrete** foundation, wherein the upper ends of the high-intensity prestress bolts are fixed with the **tower** flange by screw caps I; the lower ends of the high-intensity prestress bolts are connected with screw caps II welded and fixed to the lower end face of the bottom flange; the screw caps II are covered by hemispherical covers; and **hollow** pipes for enabling the high-intensity prestress bolts to pass through are arranged between the **tower** flange and the bottom flange. The replaceable embedded bolt type wind generation set **concrete** foundation and the construction **method** thereof are suitable for the technical field of civil engineering in the wind power generation industry.

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- PN - [CN103213329](#) A 20130724
- PR - CN20131114050 20130402
- AP - CN20131114050 20130402
- DT - I
- CT - || STSE (A)
[CN102865777](#) A 20130109 [Y] (UNIV XI AN JIAOTONG)
 [Y] 1-9
 权利要求1-10
[CN102909908](#) A 20130206 [Y] (UNIV XI AN JIAOTONG)
 [Y] 1-9
 权利要求1-5及说明书附图1-2
- PA - UNIV XI AN JIAOTONG
- TI - Light-weight low-cost **concrete** pouring dual-layer composite structure armor and producing **method** thereof
- AB - The invention discloses a light-weight low-cost **concrete** pouring dual-layer composite structure armor and a producing **method** thereof. as well as the upper parts and the lower parts of two square quadrangular pyramid meta net rack groups are arranged at the space between adjacent three metal panels in a welding mode so as to form a dual-layer **hollow** golden **tower** dot matrix interlayer structure; active powder **concrete** is poured in the dual-layer **hollow** golden **tower** dot matrix interlayer structure; a **concrete** direct pouring mode is adopted for producing the composite structure armor, so that a producing technology is simplified; and also the communication property of the golden **tower** dot matrix interlayer structure guarantees the entirety of the composite structure after the **concrete** pouring, so that the light-weight low-cost **concrete** pouring dual-layer composite structure armor provided by the invention has the characteristics of light weight, excellent penetration resistance, and capability of resisting secondary impact, developing of the integral protection effect of the armor structure; and the preparation technology is simple, and the cost is low.

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- PN - [DE102011120378](#) A1 20130613
- PR - DE201110120378 20111207
- AP - DE201110120378 20111207
- DT - *; Rep
- CCI - [F03D13/22](#) ; [F03D13/25](#)
- CCA - [Y02E10/726](#) ; [Y02E10/727](#) ;
[F05B2240/93](#) ; [F05B2240/95](#)
- PA - WERNER MOEBIUS ENGINEERING
 GMBH [DE]
- TI - Off-shore wind-power plant for being installed at bottom of sea, has nacelle located with rotor and anchoring unit on swimming foundation, which is formed as



annular body that is integrally assembled or formed from prefabricated segments

AB

- The plant has a **tower** standing on a swimming foundation on which a nacelle is located with a rotor and an anchoring unit. The swimming foundation is formed as an annular body, which is integrally assembled or formed from prefabricated segments (20, 22, 24). The segments are formed as partial **hollow** and/or tubular segments, which are firmly connected with one another. The annular body or the segments are formed from **concrete**, where the annular body comprises spring and floodable chambers. Tube-shaped swords (44) are ballasted with sand. An independent claim is also included for a **method** for setting-up and installing an off-shore wind-power plant.

PN - [MX2012007388](#) A 20121123

PR - EP20090306323
20091223; WO2010EP70528
20101222

AP - MX20120007388 20101222

DT - I

CCI - [E04H12/16](#) ; [E04H12/34](#) ;
[F03D13/20](#)

CCA - [Y02B10/30](#) ; [Y02E10/728](#)

PA - SOLETANCHE FREYSSINET [FR]

TI - **TOWER** HAVING A PRE-STRESSED **CONCRETE** COLUMN AND CONSTRUCTION **METHOD**.

AB - A **hollow** column (10) having a wall surrounding a inner space erected. Pre-stressing cables (15) comprising tendons (1) and two cable terminations (20) are pre-assembled. Each tendon is contained in a respective jacket (4) with a protective substance (3). Each cable termination comprises a block (30) for anchoring each tendon of a pre-stressing cable, a chamber (31) filled with a protective substance on a rear side of the block and a sealing system closing the chamber opposite the block. Each tendon of the pre-stressing cable extends through the sealing system and has its jacket interrupted in the chamber. The pre-assembled pre-stressing cables are installed in the inner space of the **hollow** column, with the two terminations of each cable bearing against abutment portions (25) provided at the upper and lower parts of the column. The pre-stressing cables can then be tensioned.

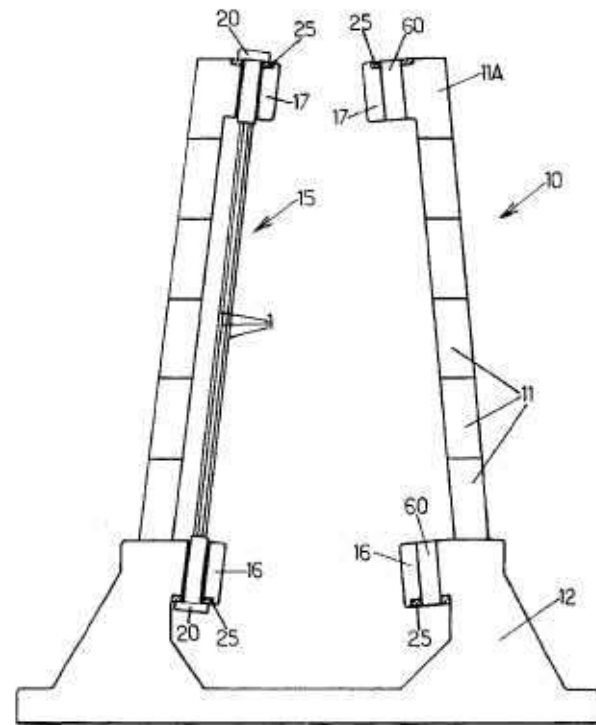


FIG.1.

AP - CN20121483890 20121126
DT - I
PA - STATE GRID CORP CHINA; ANYANG POWER SUPPLY CO HENAN
TI - Construction **method** for **concrete tower** foundation for power transmission
AB - The invention discloses a construction **method** for a **concrete tower** foundation for power transmission and belongs to the field of a construction technology. The construction **method** comprises the following steps: digging a pit according to a design drawing, binding reinforcing ribs, erecting a mould and pouring **concrete**; after binding the reinforcing ribs, erecting the mould and pouring the **concrete**, forming uniformly distributed **hollow** grid bodies, wherein the length, width and height of the **hollow** grid bodies are all within the scope of 10cm-40cm; and pouring fillers into the **hollow** grid bodies, wherein the fillers contain cement, water slag and coal ash at a weight ratio of 1:(1.5-1.7):(2-2.5), and water reducers are added into the fillers. According to the construction **method** provided by the invention, the cost is lowered, the quality of the **tower** foundation is effectively increased, the physical life of the **tower** foundation is prolonged and the safety and reliability of power transmission facilities are ensured.

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PN - [RS20120269](#) A1 20121231
PR - EP20090306323
20091223; WO2010EP70528
20101222
AP - RS2012P000269 20101222
DT - I
CCI - [E04H12/16](#) ; [E04H12/34](#) ;
[F03D13/20](#)
CCA - [Y02B10/30](#) ; [Y02E10/728](#)
PA - SOLETANCHE FREYSSINET [FR]
TI - **TOWER HAVING A PRE-STRESSED CONCRETE COLUMN AND CONSTRUCTION METHOD**
AB - A **hollow** column (10) having a wall surrounding a inner space erected. Pre-stressing cables (15) comprising tendons (1) and two cable terminations (20) are pre-assembled. Each tendon is contained in a respective jacket (4) with a protective substance (3). Each cable termination comprises a block (30) for anchoring each tendon of a pre-stressing cable, a chamber (31) filled with a protective substance on a rear side of the block and a sealing system

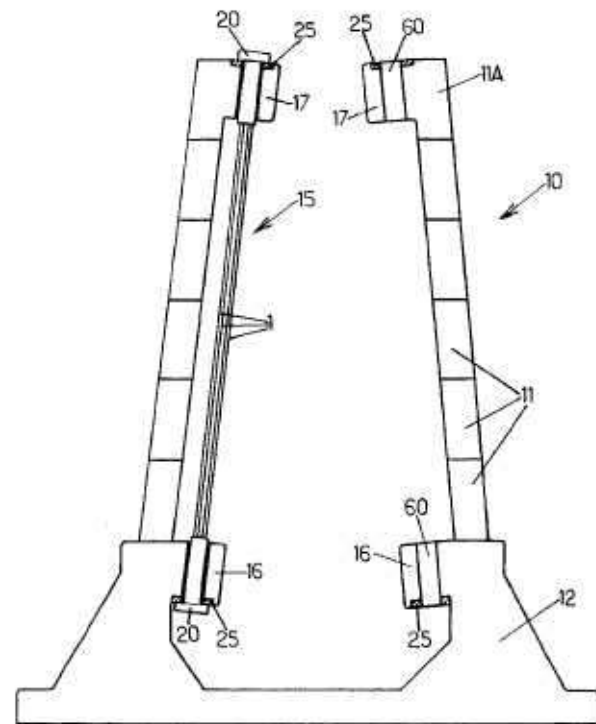


FIG.1.

closing the chamber opposite the block. Each tendon of the pre-stressing cable extends through the sealing system and has its jacket interrupted in the chamber. The pre-assembled pre-stressing cables are installed in the inner space of the **hollow** column, with the two terminations of each cable bearing against abutment portions (25) provided at the upper and lower parts of the column. The pre-stressing cables can then be tensioned.

- 10/64** © EPODOC / EPO
- PN - [CN102859098](#) A 20130102
- PNFP - CN102859098B B 20151125
- PR - WO2010EP70528
20101222; EP20090306323
20091223
- AP - CN2010863185 20101222
- DT - I
- CT - || STSE (A)
[EP1262614](#) A2 20021204
[Y] (OEVERMANN GMBH & CO KG
[DE]);
[US6578329](#) B1 20030617
[Y] (STUBLER JEROME [FR], et al);
[CN1447873](#) A 20031008
[A] (WOBLEN ALOYS [DE]);
[US2002086158](#) A1 20020704
[A] (STUBLER JEROME [FR], et al);
[CN101672039](#) A 20100317
[A] (MITSUI SHIPBUILDING ENG);
[DE4408043](#) A1 19950928
[A] (HOCHTIEF AG HOCH
TIEFBAUTEN [DE])
- CCI - [E04H12/16](#) ; [E04H12/34](#) ;
[F03D13/20](#)
- CCA - [Y02B10/30](#) ; [Y02E10/728](#)
- PA - (A)
SOLETANCHE FREYSSINET
- TI - (A)
Tower having a pre-stressed **concrete** column and

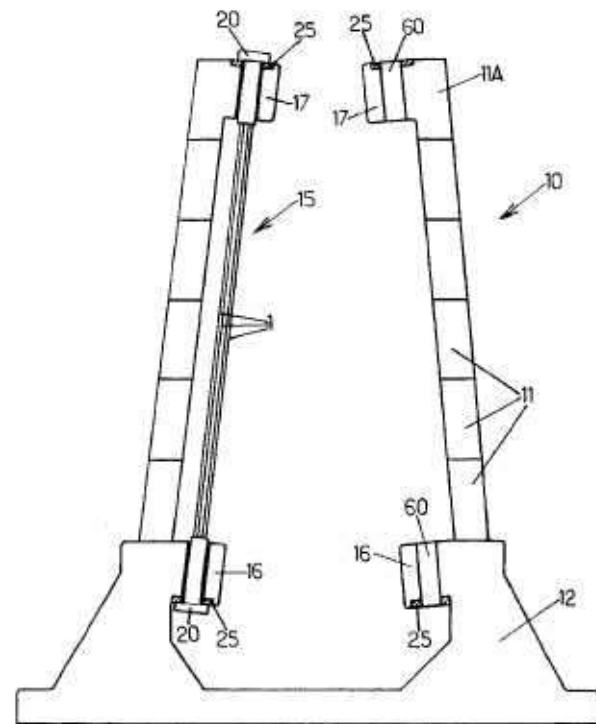


FIG.1.

construction **method**

AB

- (A)

A **hollow** column (10) having a wall surrounding a inner space erected. Pre-stressing cables (15) comprising tendons (1) and two cable terminations (209 are pre-assembled. Each tendon is contained in a respective jacket (4) with a protective substance (3). Each cable termination comprises a block (30) for anchoring each tendon of a pre-stressing cable, a chamber (31) filled with a protective substance on a rear side of the block and a sealing system closing the chamber opposite the block. Each tendon of the pre-stressing cable extends through the sealing system and has its jacket interrupted in the chamber. The pre-assembled pre-stressing cables are installed in the inner space of the **hollow** column, with the two terminations of each cable bearing against abutment portions (25) provided at the upper and lower parts of the column. The pre-stressing cables can then be tensioned.