

Title (en)

METHOD AND SHEATHING FOR PRODUCING A GROUND COLUMN TO SUPPORT BUILDING OR TRAVELLING LOADS

Title (de)

VERFAHREN UND UMHÜLLUNG ZUR HERSTELLUNG EINER BODENSÄULE ZUR ABTRAGUNG VON BAUWERKS- ODER VERKEHRSLASTEN

Title (fr)

PROCEDE ET ENVELOPPE POUR PRODUIRE UNE COLONNE DE TERRE SERVANT A SUPPORTER DES CHARGES D'OUVRAGE ET DES CHARGES MOBILES

Publication

EP 1009884 B1 20011010 (DE)

Application

EP 98951345 A 19980903

Priority

- EP 98951345 A 19980903
- EP 9805580 W 19980903
- EP 97115299 A 19970904

Abstract (en)

[origin: EP0900883A1] The invention relates to a method for producing ground columns (28, 86, 88) to support building or travelling loads, wherein a tubular encasing (10) is driven into the ground in a stationary zone, the ground material is removed from the tubular encasing (10), a sheathing (16) made of geotextile material is inserted into the tubular encasing (10) and filled with a load-bearing, granulated, loose material (24), the load-bearing material (24) is subsequently compacted and the tubular encasing (10) is removed. An individual jacket tube for each ground column (28, 86, 88) is driven into the ground, the jacket tube (10) is emptied by excavation, a sack-like sheathing (16) with a diameter that is larger than the diameter of the inner diameter of the tubular jacket (10) is introduced into the empty jacket tube (10) and the granulated material (24) progressively presses the sheathing (16) against the stationary supporting layer and the inner wall of the tubular jacket (10) during filling. The granulated material (24) is so compacted upon removal of the jacket tube (10) that the sheathing (16) extends beyond its original diameter until the opposing forces produced by the compacted ground around it are approximately balanced out. The material of the sheathing (16) is endowed with sufficient penetrability qualities so that no surrounding earth can penetrate into the column (28, 86, 88) thus formed.

IPC 1-7

E02D 5/66; **E02D 3/08**

IPC 8 full level

E02D 3/08 (2006.01); **E02D 5/66** (2006.01)

CPC (source: EP)

E02D 3/08 (2013.01); **E02D 5/665** (2013.01)

Cited by

DE10351956B3

Designated contracting state (EPC)

AT BE CH DE DK FR GB LI NL

DOCDB simple family (publication)

EP 0900883 A1 19990310; **EP 0900883 B1 20020320**; AT E206787 T1 20011015; AU 9741098 A 19990322; DE 59706689 D1 20020425; DE 59801707 D1 20011115; DK 0900883 T3 20020715; DK 1009884 T3 20011119; EP 1009884 A1 20000621; EP 1009884 B1 20011010; HK 1020443 A1 20000420; NL 1010001 A1 19990305; NL 1010001 C2 19990623; WO 9911870 A1 19990311

DOCDB simple family (application)

EP 97115299 A 19970904; AT 98951345 T 19980903; AU 9741098 A 19980903; DE 59706689 T 19970904; DE 59801707 T 19980903; DK 97115299 T 19970904; DK 98951345 T 19980903; EP 9805580 W 19980903; EP 98951345 A 19980903; HK 99103936 A 19990909; NL 1010001 A 19980902