

Title (en)
PRESTRESSED ANCHORAGE ROD AND PILE.

Title (de)
VERPRESSANKER UND VERPRESSPFAHL.

Title (fr)
TIRANT D'ANCRAGE ET PIEU PRECONTRAINTS.

Publication
EP 0189443 A1 19860806 (DE)

Application
EP 85903227 A 19850712

Priority
DE 3425941 A 19840713

Abstract (en)
[origin: WO8600655A1] The tensioning rod comprises at least one traction rod member (1) which is tensionable from the upper side of the ground against an abutment (3) member which is longitudinally displaceable in the ground by means of an envelope (5). With said traction rod member (1), a tension rod body (6) is connected to the end which is adjacent to the bottom of the tension rod hole. Said body co-operates at least with one pressure member (1') subjected to a pressure. Said pressure member (1') cooperating with the enviroing compression body (2) is prolonged as a traction member (1') up to the upper side of the ground with the view of creating a tension against the abutment (3). The tension member (1') co-operating with the compression body (3) is thus subjected on one hand to a pressure and on the other hand to a traction. The foundation pile comprises a pressure member (20') surrounded by a concentric pipe (20) with a closed end (21) adjacent to the bottom of the pile hole, a compression body (2) surrounding the pipe (20) and the pressure member (20') bearing on the end of the closed pipe (21). The upper end of the pipe (20), as for the pressure member (20'), is configured so as to be subjected to a pressure.

Abstract (fr)
Le tirant de compression comporte au moins un organe de traction de tirant (1) tendable depuis le côté supérieur du sol contre un aboutement (3), organe qui est déplaçable longitudinalement dans le sol grâce à une enveloppe (5). Avec cet organe de traction de tirant (1), un corps de tirant (6) est relié à l'extrémité adjacente au fond du trou du tirant. Ce corps coopère au moins avec un organe de pression (1') soumis à une pression. Cet organe de pression (1') coopérant avec le corps de compression environnant (2) est prolongé également en tant qu'organe de traction (1') jusqu'au côté supérieur du sol en vue d'une tension contre l'aboutement (3). L'organe de tension (1') coopérant avec le corps de compression (3) est ainsi soumis d'une part à une pression et d'autre part à une traction. Le pieu de fondement comporte un organe de pression (20') entouré d'un tuyau concentrique (20) avec une extrémité fermée (21) adjacente au fond du trou du pieu, un corps de compression (2) entourant le tuyau (20) et l'organe de pression (20') s'appuyant sur l'extrémité de tuyau fermée (21). L'extrémité supérieure du tuyau (20), à l'instar de l'organe de pression (20'), est formée de manière à pouvoir être soumise à une pression.

IPC 1-7
E02D 5/80; **E02D 5/28**; **E02D 5/62**

IPC 8 full level
E02D 5/48 (2006.01); **E02D 5/28** (2006.01); **E02D 5/52** (2006.01); **E02D 5/54** (2006.01); **E02D 5/62** (2006.01); **E02D 5/80** (2006.01); **E04C 5/12** (2006.01)

IPC 8 main group level
E02D (2006.01)

CPC (source: EP KR US)
E02D 5/285 (2013.01 - EP US); **E02D 5/523** (2013.01 - EP US); **E02D 5/62** (2013.01 - EP US); **E02D 5/80** (2013.01 - KR); **E02D 5/808** (2013.01 - EP US)

Citation (search report)
See references of WO 8600655A1

Cited by
DE4123013A1

Designated contracting state (EPC)
AT BE CH FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 8600655 A1 19860130; AT E39009 T1 19881215; AU 4633885 A 19860210; BR 8506826 A 19861125; DE 3425941 A1 19860123; DE 3425941 C2 19871001; EP 0189443 A1 19860806; EP 0189443 B1 19881130; JP H0417250 B2 19920325; JP S61502970 A 19861218; KR 860700277 A 19860801; KR 930008634 B1 19930911; US 4715745 A 19871229

DOCDB simple family (application)
DE 8500241 W 19850712; AT 85903227 T 19850712; AU 4633885 A 19850712; BR 8506826 A 19850712; DE 3425941 A 19840713; EP 85903227 A 19850712; JP 50323085 A 19850712; KR 860700146 A 19860312; US 85818586 A 19860310