

Title (en)

Process for retaining lateral walls of deep excavations.

Title (de)

Verfahren zum Stützen der Seitenwände von Tiefgruben.

Title (fr)

Procédé pour le maintien des parois latérales de fouilles profondes.

Publication

EP 0305259 A1 19890301 (FR)

Application

EP 88402056 A 19880805

Priority

FR 8711308 A 19870807

Abstract (en)

[origin: JPH01131723A] PURPOSE: To dig a hole simply and economically by digging an inner side of a lateral wall of timbering down to a fixed depth, then constructing an annular slab having an opening part at the center thereof in a bottom part of a digged hole, supporting it by support wire, and then digging the hole through the opening part. CONSTITUTION: After a lateral wall 1 of timbering is constructed around a hole, its inner side is digged down to such depth that the lateral wall 1 can resist against soil pressure. Next, an annular slab 3 is constructed in a bottom part of the digged hole and is supported by connecting it with an upper part of the lateral wall 1 of timbering using a support wire 5 after the slab 3 is coagulated. A lower part from the slab 3 is digged through an opening part 4 provided at the center of the annular slab 3. Consequently, it is unnecessary to provide a deep support part for supporting a floor provided so as to withstand a horizontal force that soil applies on the lateral wall of timbering from the beginning of digging, and the construction can be done simply and economically.

Abstract (fr)

L'invention est relative à un procédé pour butonner ou maintenir les parois verticales de soutènement de fouilles profondes. Après avoir réalisé librement la fouille sur une profondeur comptable avec la résistance des parois de soutènement (1), on réalise, sur le fond de la fouille, une dalle-anneau (3) qui prend appui sur sa périphérie contre les parois verticales de soutènement (1) et qui repose sur le fond de la fouille ; Après la solidification de cette dalle-anneau (3), on la réunit pour la supporter, à la partie supérieure des parois de soutènement (1) à l'aide de haubans (5) ; puis on poursuit la fouille par l'orifice (4) de la dalle-anneau (3) jusqu'au fond de l'ouvrage.

IPC 1-7

E02D 29/04

IPC 8 full level

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IPC 8 main group level

E02D (2006.01)

CPC (source: EP US)

E02D 29/045 (2013.01 - EP US)

Citation (search report)

- [A] FR 2133055 A5 19721124 - SAUNIER DUVAL
- [A] GB 1405879 A 19750910 - KENNEDY F E
- [A] CA 1222384 A 19870602 - NETUPSKY BORIS
- [A] PATENT ABSTRACTS OF JAPAN, vol. 10, no. 295 (M-523)[2351], 7 octobre 1986, page 110 M 523; & JP-A-61 109 827 (TAKENAKA KOMUTEN CO. LTD) 28-05-1986

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