

Title (en)

Water resistant cast-in-place pile wall and method of constructing it

Title (de)

In-situ hergestellte, wasserundurchlässige Pfahlwand und Verfahren zu deren Herstellung

Title (fr)

Rideau de palplanches résistant à l'eau forme in-situ et son procede de fabrication

Publication

**EP 1600561 A1 20051130 (EN)**

Application

**EP 04447131 A 20040526**

Priority

EP 04447131 A 20040526

Abstract (en)

The invention relates to a method of constructing a water resistant cast-in-place pile wall and the cast-in-place pile wall thus obtained. The wall is built up by providing a number of primary piles (302) and a number of secondary piles (312) which are intersecting. The wall is made watertight by providing a compression seal in the intersections. This compression seal is obtained by providing a liquid blocking means (320), which is positioned in a holding means (318), part of the armouring (314). Upon contact with water, the liquid blocking means swells and expands in the direction of the intersection, thus creating a compression seal. The compression seals are made at points in the intersection lines different from the end points of the intersection lines and are provided in the concrete piles before hardening of the secondary piles (312) occurs. <IMAGE>

IPC 1-7

**E02D 19/06**; **E02D 29/16**

IPC 8 full level

**E02D 5/18** (2006.01); **E02D 19/06** (2006.01); **E02D 29/16** (2006.01)

CPC (source: EP)

**E02D 5/18** (2013.01)

Citation (search report)

- [XY] CH 527972 A 19720915 - WEY GINO INGENIEUR [DE]
- [Y] US 3766695 A 19731023 - MORNER J
- [Y] US 4909675 A 19900320 - TAKI OSAMU [US]
- [A] EP 1418277 A1 20040512 - CHIAVEROTTI BVBA [BE]

Cited by

DE102017121037A1; CN112554205A; CN102061710A; KR101960499B1; KR101960489B1; CN106245664A; CN108894211A; CN112627182A; JP2019065481A; CN110331727A

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