

Title (en)

Underground water cutoff wall and method of constructing the same.

Title (de)

Schlitzwand und sein Konstruktionsverfahren.

Title (fr)

Barrière étanche souterraine et son procédé de construction.

Publication

EP 0562238 A1 19930929

Application

EP 93101398 A 19930129

Priority

JP 6617492 A 19920324

Abstract (en)

An underground water cutoff wall (10) comprises an underground wall (20) and a plurality of water cutoff sheets (30) made of an corrosion resistance material. The underground wall (20) comprises a binding material and an aggregate such as sand and pebbles taken by an excavator. The water cutoff sheets (30) are continuously embedded into the underground wall (20) in such a manner as to stop seepage of water. Each of the water cutoff sheets (30) is connected with the adjacent water cutoff sheet (30) through a joint portion (40) which is formed at the longitudinal side thereof. If necessary, the reinforcing elements (50) are embedded in the underground wall (20) along the water cutoff sheets (30). The underground water cutoff wall (10) of the present invention is constructed by the following method. That is, the ground is firstly evacuated to form an excavated ditch (61) therein. A mixture of the aggregate and a slurry of the binding material is cast into the excavated ditch (61) to form the underground wall (20). The water cutoff sheets (30) are inserted into the underground wall (20) until the mixture is not hardened. If necessary, the reinforcing elements (50) are also inserted into the underground wall (20) until the mixture is not hardened. Subsequently, the mixture is hardened. As a result, the underground water cutoff wall (10) has excellent corrosion resistance for stopping the seepage of water over a long time period. <IMAGE>

IPC 1-7

E02D 19/18

IPC 8 full level

E02D 3/00 (2006.01); **B09B 1/00** (2006.01); **E02D 5/20** (2006.01); **E02D 19/18** (2006.01)

CPC (source: EP)

E02D 19/18 (2013.01)

Citation (search report)

- [X] EP 0139100 A1 19850502 - ASK KENKYUSHO KK [JP]
- [A] US 4909674 A 19900320 - KONNO SHOZO [JP], et al
- [A] NL 8502844 A 19870518 - DIRK VERSTOEP B V

Cited by

NL9500213A; GB2283039A; NL9500310A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0562238 A1 19930929; JP H05272132 A 19931019; TW 266240 B 19951221

DOCDB simple family (application)

EP 93101398 A 19930129; JP 6617492 A 19920324; TW 81104074 A 19920525