

Title (en)

PREFABRICATED RETAINING ELEMENTS FOR PROTECTING, REINFORCING AND/OR LINING EXCAVATIONS, ANCHORING AND CONNECTING DEVICES, AND METHOD FOR USING THESE ELEMENTS AND DEVICES

Publication

**EP 0166656 B1 19891018 (FR)**

Application

**EP 85401227 A 19850619**

Priority

FR 8410336 A 19840629

Abstract (en)

[origin: ES8801015A1] In this slope facing process, facing elements (4) are assembled in situ, their edges having means of jointing with adjacent elements drainage (D) is provided over the whole height of the face (1) of an excavation between this face and the facing (R) of elements (4) behind which a void-filling material (B) is injected, consisting for example of lean mortar or a swelling material.

IPC 1-7

**E02B 3/14**; **E02D 17/04**; **E02D 17/20**; **E02D 29/02**; **E02D 31/02**; **E21D 5/04**; **E21D 11/03**

IPC 8 full level

**E02B 3/14** (2006.01); **E02D 17/04** (2006.01); **E02D 17/20** (2006.01); **E02D 29/02** (2006.01); **E02D 31/02** (2006.01); **E21D 5/04** (2006.01); **E21D 11/03** (2006.01)

CPC (source: EP US)

**E02D 17/04** (2013.01 - EP US); **E02D 29/0266** (2013.01 - EP US)

Cited by

DE4214078A1; DE3716496C1; DE3802671A1; GB2351518A; GB2351518B; EP0427221A1; EP0377541A1; FR2641295A1

Designated contracting state (EPC)

AT BE CH DE GB IT LI NL SE

DOCDB simple family (publication)

**EP 0166656 A2 19860102**; **EP 0166656 A3 19860528**; **EP 0166656 B1 19891018**; AT E47446 T1 19891115; DE 3573817 D1 19891123; ES 545177 A0 19871201; ES 8801015 A1 19871201; FR 2566814 A1 19860103; FR 2566814 B1 19861017; JP S6114322 A 19860122; US 4718792 A 19880112

DOCDB simple family (application)

**EP 85401227 A 19850619**; AT 85401227 T 19850619; DE 3573817 T 19850619; ES 545177 A 19850628; FR 8410336 A 19840629; JP 28188884 A 19841225; US 1417087 A 19870212