

Title (en)
CELLULAR STRUCTURES FOR SUSTAINING WALLS

Title (de)
ZELLULARE STRUKTUREN ZUM STÜTZEN VON WÄNDEN

Title (fr)
STRUCTURES CELLULAIRES POUR MURS DE SOUTÈNEMENT

Publication
EP 0489054 B1 19980304 (FR)

Application
EP 90912402 A 19900817

Priority
• CA 9000262 W 19900817
• CA 608914 A 19890821

Abstract (en)
[origin: WO9102851A2] A cellular structure for sustaining an embankment is comprised of a vertical facing structure including generally a lattice (1) connected to an embedding structure (2, 3). The embedding structure (2, 3) is extended from the facing structure (1) into the embankment. In a first embodiment, the embedding structure is configured like two lattice sections (2) vertically mounted at the vertical edges of the facing structure (1) and prolonged generally in parallel to the embankment. The embedding structure may also be comprised of at least one U-shaped stirrup (3) connected at each of its free ends to a respective vertical edge of the facing structure (1). In this case, the stirrup (3) is generally extended horizontally in the embankment. The masonry of the facing structure (1) may be carried out in different ways in order to achieve various finishings. The cellular structure may also include a sunk framework (5) between the embankment and the facing structure (1). The cellular structure may thus be filled with stones of smaller or larger dimensions as well as with earth. The use of a geotextile allows the vegetation to grow through the facing structure (1).

IPC 1-7
E02D 29/02

IPC 8 full level
E02D 5/20 (2006.01); **E02D 29/02** (2006.01)

CPC (source: EP US)
E02D 5/20 (2013.01 - EP US); **E02D 29/0216** (2013.01 - EP US); **E02D 29/0241** (2013.01 - EP US)

Cited by
DE10201374B4

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

DOCDB simple family (publication)
WO 9102851 A2 19910307; WO 9102851 A3 19910502; AT E163706 T1 19980315; AU 6166790 A 19910403; AU 656120 B2 19950127; AU 682407 B2 19971002; AU 7900194 A 19950202; CA 1319261 C 19930622; DE 69032103 D1 19980409; DE 69032103 T2 19981029; EP 0489054 A1 19920610; EP 0489054 B1 19980304; RO 113171 B1 19980430; US 5505563 A 19960409

DOCDB simple family (application)
CA 9000262 W 19900817; AT 90912402 T 19900817; AU 6166790 A 19900817; AU 7900194 A 19941123; CA 608914 A 19890821; DE 69032103 T 19900817; EP 90912402 A 19900817; RO 92098890 A 19900817; US 84799492 A 19920421