

Title (en)
Modular interlocking framing elements

Title (de)
Ineinandergreifende Elemente

Title (fr)
Éléments de raccordement imbriqués

Publication
EP 1418285 A1 20040512 (EN)

Application
EP 02079703 A 20021108

Priority
EP 02079703 A 20021108

Abstract (en)
A system of modular, hollow interlocking building elements which can absorb large horizontal or vertical pressures, and thus eradicate or minimize the effects of active pressure. The elements can be connected along each face and stacked one upon the other to form a stable, continuous, multi-directional structure, requiring no cement or other stabilizing material. The system comprises a plurality of base elements, having slits on the vertical faces, and a plurality of interlocking elements to form layers above the base, having a slit in each of two, three or four vertical faces. The elements are arranged so that the faces having no slit formed on the outer surface, thus forming a structure having a smooth, continuous outer surface. The elements can be filled with any required filling material. The elements may be used in construction of structures in which active pressure is a factor, such as retaining walls, bridge abutments, ramps and the like. <IMAGE>

IPC 1-7
E04C 1/39; **E02D 29/02**

IPC 8 full level
E02D 17/18 (2006.01); **E02D 29/02** (2006.01); **E04C 1/39** (2006.01); **E04B 2/02** (2006.01)

CPC (source: EP)
E02D 17/18 (2013.01); **E02D 29/025** (2013.01); **E04C 1/395** (2013.01); **E04B 2002/0204** (2013.01)

Citation (applicant)
• US 4982544 A 19910108 - SMITH PETER J [US]
• US 5181362 A 19930126 - BENITEZ RAFAEL C [US]
• US 5588271 A 19961231 - PITCHFORD PETER R [CA]
• US 4651485 A 19870324 - OSBORNE RONALD P [US]
• US 5379565 A 19950110 - VIENNE FABIEN [FR]
• US 4514949 A 19850507 - CRESPO JORGE L N [US]
• US 4573301 A 19860304 - WILKINSON RUDOLPH P [US]
• US 4815897 A 19890328 - RISI ANGELO [CA], et al
• US 4075808 A 19780228 - PEARLMAN SANFORD
• US 4627209 A 19861209 - SCHWARTZ ERVIN J [US]
• US 4031678 A 19770628 - SCHURING JAMES A
• US 3936987 A 19760210 - CALVIN EDWARD L

Citation (search report)
• [Y] US 4601148 A 19860722 - RISI ANGELO [CA], et al
• [Y] US 834950 A 19061106 - WIE ELMER E VAN [US]
• [A] US 4481155 A 19841106 - FROHWERK PAUL A [US]

Cited by
WO2007147624A1

DOCDB simple family (publication)
EP 1418285 A1 20040512; **EP 1418285 B1 20080109**; AT E383477 T1 20080115; DE 60224542 D1 20080221

DOCDB simple family (application)
EP 02079703 A 20021108; AT 02079703 T 20021108; DE 60224542 T 20021108