

Title (en)  
RESTORATION AND REINFORCEMENT OF A SCARP

Title (de)  
WIEDERHERSTELLUNG UND VERSTÄRKUNG EINES ABHANGS

Title (fr)  
RESTAURATION ET RENFORT D'ESCARPEMENT

Publication  
**EP 2884007 A1 20150617 (EN)**

Application  
**EP 14004147 A 20141209**

Priority  
• EE U201300097 U 20131210  
• US 201414510374 A 20141009

Abstract (en)  
A restored and reinforced scarp and its structure and restoring and reinforcing structure for a scarp is provided. The scarp comprises of the following: the scarp surface under restoration is cleaned, and a pit (an excavation) is created. The bottom of the pit is filled with mineral soil and is compacted as a foundation of a retaining wall. A protective filter made from draining mineral soil is installed on the foothill of the scarp, where the protective filter is surrounded by draining geotextile. The geogrid is placed on the surface of the regressed scarp and then anchored to the soil of the scarp by tensile ropes. A rigid support, such as a crib (grillage), is created on the protective filter and batter piles are driven under the rigid support. Then the retaining wall is constructed, consisting of layers of compacted soil that are surrounded by draining geotextile. The retaining wall is covered by erosion control mats, anchored to the draining geotextile of the soil layers of the retaining wall. Protrusion in the scarp is covered with large granite boulders or concrete elements.

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

CPC (source: EP)  
**E02D 29/0208** (2013.01)

Citation (applicant)  
• WO 9839518 A1 19980911 - EARDLEY DAVID J [US], et al  
• TW I262974 B 20061001 - LEE DER-HER [TW], et al  
• EP 0174253 A2 19860312 - FRANCE ETAT [FR], et al  
• EP 0603460 A1 19940629 - RDB PLASTOTECNICA SPA [IT]  
• US 2007041793 A1 20070222 - MOSS ARTHUR L [US]

Citation (search report)  
• [AD] US 2007041793 A1 20070222 - MOSS ARTHUR L [US]  
• [AD] WO 9839518 A1 19980911 - EARDLEY DAVID J [US], et al  
• [A] US 2012020745 A1 20120126 - MILLER STANLEY MARK [US], et al  
• [A] US 2011286795 A1 20111124 - BARRETT ROBERT K [US], et al

Cited by  
CN113431064A; CN118065406A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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