

Title (en)  
Improved anchoring element for ground consolidation

Title (de)  
Verbessertes Verankerungselement zur Bodenverfestigung

Title (fr)  
Élément d'ancrage amélioré pour la consolidation du sol

Publication  
**EP 2634313 A3 20140709 (EN)**

Application  
**EP 13157515 A 20130301**

Priority  
IT VI20120051 A 20120302

Abstract (en)  
[origin: EP2634313A2] The invention is an anchoring element (1; 30) for making ground (S) containment and consolidation structures, comprising: a tubular bar (2) with mainly longitudinal development driven into the ground (S), in which it is constrained by means of a cement mix; one or more cables (5) arranged inside the bar (2) and constrained in the cement mix (C) present inside the bar (2); and a fixing unit (6) suited to fix the anchoring element (1; 30) to the ground (S). The fixing unit (6) is connected to the ends (5a, 2a) of the cables (5) and of the bar (2) projecting from the ground (S). The cement mix (C) fills the bar (2) completely and the cables (5) are buried in the cement mix (C) for their entire length. According to a variant embodiment, the cement mix (C) fills the bar (2) partially, for a section of its length (Cb) in which the ends of the cables (5) are immersed.

IPC 8 full level  
**E02D 5/80** (2006.01)

CPC (source: EP)  
**E02D 5/808** (2013.01)

Citation (search report)  
• [A] DE 4036721 A1 19910620 - DALLA GASSA GAETANO VALDAGNO [IT]  
• [AD] WO 2005090690 A1 20050929 - TECHMO ENTW & VERTRIEBS GMBH [AT], et al

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