

Title (en)
DEVICE FOR STABILISING AN UNSTABLE SHOULDER IN RAILWAY AND ROAD CONSTRUCTION AND METHOD FOR PRODUCING THE SAME

Title (de)
VORRICHTUNG ZUR SICHERUNG INSTABILER BANKETTE IM BAHNBAU UND IM STRASSEN- UND WEGEBAU, SOWIE VERFAHREN ZU IHRER ERSTELLUNG

Title (fr)
DISPOSITIF POUR STABILISER UNE BANQUETTE INSTABLE DANS LE DOMAINE DE LA CONSTRUCTION DE VOIES FERREES ET DE ROUTES, ET PROCEDE CORRESPONDANT

Publication
EP 0981673 B2 20060222 (DE)

Application
EP 98914762 A 19980424

Priority
• CH 9800164 W 19980424
• CH 110997 A 19970512

Abstract (en)
[origin: WO9851869A1] The inventive device is provided with angular support grids (2), said support grids being placed next to each other on the ground. The front faces of said support grids are covered with a geocompatible manufactured material (7), filled with bulk material (8) and fixed in the ground by means of vertical sustaining elements (3). Said sustaining elements (3) are driven into the ground at a set distance from the front faces (21) of the support grids (2), through the base parts of said support grids (2), by means of pile-driving and/or boring and optionally, are fixed by oblique tension elements (4) which are driven into the ground at an angle. It is possible to fix several support grids (2) arranged on top of each other with the same sustaining elements (3) or tension elements (4). Once a formation has been created, sustaining elements are driven into the ground until only the shanks are left protruding. The support grids are then placed on said shanks. Alternatively, support grids are placed on the formation and sustaining elements are then driven through the base parts of said support grids, into the ground until only the shanks are left protruding. The front faces of the support grids are covered with a geocompatible manufactured material and filled with bulk material (8). The tension elements which correspond to the sustaining elements can be driven into the ground at an angle and fixed.

IPC 8 full level
E02D 29/02 (2006.01); **E01B 2/00** (2006.01)

CPC (source: EP)
E01B 2/006 (2013.01); **E02D 29/0233** (2013.01)

Citation (opposition)
Opponent :
• EP 0574233 A1 19931215 - GEA SYSTEM S R L [IT]
• WO 9633314 A1 19961024 - FJERBY A S [NO], et al
• DE 4226067 A1 19930513 - CLAUS HERMANN [CH]
• GABIONS METALLIQUES, 18. November 1979 (1979-11-18)
• USAGE ANTERIEUR DATANTE DE 1995 AU CANADA, 29. Mai 1995 (1995-05-29)

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WO 9851869 A1 19981119; AT E222311 T1 20020815; AU 6916298 A 19981208; CH 692390 A5 20020531; DE 59805193 D1 20020919; EP 0981673 A1 20000301; EP 0981673 B1 20020814; EP 0981673 B2 20060222

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CH 9800164 W 19980424; AT 98914762 T 19980424; AU 6916298 A 19980424; CH 110997 A 19970512; DE 59805193 T 19980424; EP 98914762 A 19980424