

Title (en)  
INTERLOCKING STABILIZATION SYSTEM FOR STABILIZING SLOPE, UNRESTRAINED EARTH OR THE LIKE

Title (de)  
INEINANDERGREIFENDES STABILISIERUNGSSYSTEM ZUR STABILISIERUNG EINER BÖSCHUNG, LOSER ERDE ODER DERGLEICHEN

Title (fr)  
SYSTÈME DE STABILISATION D'INTER-VERROUILLAGE POUR STABILISER UNE PENTE, UNE TERRE NON CONTENUE OU ANALOGUE

Publication  
**EP 3440272 A4 20191106 (EN)**

Application  
**EP 17779404 A 20170329**

Priority

- MY PI2016701291 A 20160408
- MY 2017050012 W 20170329

Abstract (en)  
[origin: WO2017176107A1] The present invention aims to provide an interlocking stabilization system (100) for stabilizing slope, unrestrained earth or the like. Accordingly, the interlocking stabilization system (100) includes: a) a compressed bearing plate (110); b) at least one earth anchor (150) having a plurality of extendable pivotally hinged wings (152) penetrated to a predetermined depth and in communication with the compressed bearing plate (110) through a tendon bar / wire (160); wherein the compressed bearing plate (110) is adapted to be compressed and advanced toward the at least one earth anchor (150) through the tendon bar / wire (160), such that a reflective frustum cone or compact soil reaction (112) is formed thereof; wherein the plurality of extendable pivotally hinged wings (152) of the at least one earth anchor (150) is able to extend outwardly to an angle as the earth anchor (150) is progressively withdrawn under the compression, such that a frustum cone or end bearing force (154) is formed thereof; and wherein action-reaction forces (reflective frustum and end bearing force) defined between the compressed bearing plate (110) and progressively withdrawn of the at least one earth anchor (150) through the tendon bar / wire (160) are able to eliminate or overcome the active and passive zone pressures existed in the slope, unrestrained earth or the like.

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Citation (search report)

- [A] KR 20130069169 A 20130626 - JANG PYUNG CONSTRUCTION CO LTD [KR], et al
- [A] KR 101494236 B1 20150223
- See references of WO 2017176107A1

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**WO 2017176107 A1 20171012**; AU 2017246937 A1 20181018; AU 2017246937 B2 20220310; CN 108884652 A 20181123; EP 3440272 A1 20190213; EP 3440272 A4 20191106; JP 2019510909 A 20190418; MY 193504 A 20221017; US 2021164186 A1 20210603

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