

Title (en)  
SCREW-IN DOWEL FOR RAIL FIXINGS

Title (de)  
SCHRAUBDÜBEL FÜR SCHIENENBEFESTIGUNGEN

Title (fr)  
VIS-CHEVILLE POUR FIXATIONS DE RAILS

Publication  
**EP 2510153 A1 20121017 (DE)**

Application  
**EP 10794940 A 20101208**

Priority  
• EP 09178497 A 20091209  
• EP 2010069160 W 20101208  
• EP 10794940 A 20101208

Abstract (en)  
[origin: EP2333154A1] The screw anchor (10) has a threaded section (14) with external threads (18) disposed on the exterior of the screw anchor and internal threads (19) disposed in the screw anchor. The material with high elasticity is arranged in an upper partial section (16). The material forms an elevation which extends in the upward direction over the upper side of an end surface of the upper partial section in the mounted state and reduces the free opening section of an inner chamber of the upper partial section. An independent claim is also included for a railway sleeper or fast rail track with a cylindrical section.

IPC 8 full level  
**E01B 9/18** (2006.01); **F16B 13/02** (2006.01)

CPC (source: EP US)  
**E01B 9/18** (2013.01 - EP US); **F16B 13/02** (2013.01 - EP US)

Citation (search report)  
See references of WO 2011070060A1

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

DOCDB simple family (publication)  
**EP 2333154 A1 20110615; EP 2333154 B1 20160224**; CN 102713065 A 20121003; CN 102713065 B 20150708; EA 023292 B1 20160531; EA 201290478 A1 20121130; EP 2510153 A1 20121017; ES 2571941 T3 20160527; US 2012298765 A1 20121129; US 8840036 B2 20140923; WO 2011070060 A1 20110616

DOCDB simple family (application)  
**EP 09178497 A 20091209**; CN 201080055914 A 20101208; EA 201290478 A 20101208; EP 10794940 A 20101208; EP 2010069160 W 20101208; ES 09178497 T 20091209; US 201013515027 A 20101208