

Title (en)
Rock bolt

Title (de)
Gebirgsanker

Title (fr)
Boulon d'ancrage

Publication
EP 2913477 A3 20160713 (EN)

Application
EP 15155614 A 20150218

Priority
ZA 201401189 A 20140218

Abstract (en)
[origin: EP2913477A2] A rock bolt (10) which has a rectangular blade (42), which can pierce and shred a flexible housing, extending from cross-shaped mixing formations (44) at one end of an elongate rod (12).

IPC 8 full level
E21D 20/02 (2006.01); **E21D 21/00** (2006.01)

CPC (source: EP US)
E02D 5/801 (2013.01 - US); **E21D 20/021** (2013.01 - EP US); **E21D 20/025** (2013.01 - EP US); **E21D 21/0026** (2013.01 - EP US)

Citation (search report)

- [X] CA 2506342 A1 20061104 - MANSOUR MILAD [CA]
- [Y] US 6390735 B1 20020521 - GAUDREAU DAVID [CA], et al
- [Y] WO 2008106737 A1 20080912 - IND ROLL FORMERS PTY LTD [AU], et al
- [Y] US 4305687 A 19811215 - PARKER JACK
- [Y] CA 2439397 A1 20050211 - MANSOUR MINING INC [CA]
- [Y] AU 2008202943 A1 20090212 - DYWIDAG SYSTEMS INTERNATIONAL PTY LTD [AU]
- [A] US 4983083 A 19910108 - FROEHLICH PETER [DE], et al
- [A] WO 2009094725 A1 20090806 - JENNMAR CORP [US], et al

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2913477 A2 20150902; EP 2913477 A3 20160713; AU 2015200799 A1 20150903; US 2015233244 A1 20150820; ZA 201501103 B 20161130

DOCDB simple family (application)
EP 15155614 A 20150218; AU 2015200799 A 20150218; US 201514624828 A 20150218; ZA 201501103 A 20150218