

Title (en)  
Insert units for non-metallic slips

Title (de)  
Einsätze für nichtmetallische Abfangkeile

Title (fr)  
Inserts pour coins de retenues non-métalliques

Publication  
**EP 2835492 A3 20160106 (EN)**

Application  
**EP 14179595 A 20140801**

Priority  
US 201361861302 P 20130801

Abstract (en)  
[origin: EP2835492A2] A slip assembly for a downhole tool, such as a bridge plug, has a slip body and at least one insert unit with a base and one or more inserts. The slip body has an incline at one end that interfaces with an inclined surface of a cone. As this occurs, the slip body is pushed away from the tool's mandrel against a surrounding casing wall. The insert unit is disposed in the slip body with the base oriented at an angle relative to the incline, and with the one or more inserts extending from the base. In particular, the base can be disposed at or parallel to the incline, and the one or more inserts with less surface area than the base can extend perpendicular to the inline for the insert's distal ends to engage a surrounding wall of casing or the like.

IPC 8 full level  
**E21B 33/129** (2006.01)

CPC (source: BR EP)  
**E21B 23/01** (2013.01 - EP); **E21B 33/129** (2013.01 - BR); **E21B 33/1291** (2013.01 - EP)

Citation (search report)

- [Y] US 4941532 A 19900717 - HURT FLOYD R [US], et al
- [Y] US 2012097384 A1 20120426 - VALENCIA ANTHONY [US], et al
- [XA] US 5131468 A 19920721 - LANE ANDREW R [US], et al

Cited by  
GB2584275A; GB2584275B; US11821268B2

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 2835492 A2 20150211; EP 2835492 A3 20160106; EP 2835492 B1 20180620**; BR 102014019129 A2 20150922; CA 2858271 A1 20150201; CA 2858271 C 20170103

DOCDB simple family (application)  
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