

Title (en)

SELF-OPENING ROTATING PERCUSSION DRILL TIP, ESPECIALLY FOR OVERBURDEN DRILLING

Title (de)

SICH ÖFFNENDE DREH-SCHLAGBOHRKRONE, INSBESONDERE ZUM ÜBERLAGERUNGSBOHREN

Title (fr)

COURONNE DE FOREUSE ROTATIVE À PERCUSSION OUVRANT, EN PARTICULIER POUR LE FORAGE DE MORTS-TERRAINS

Publication

EP 2927417 A3 20160427 (DE)

Application

EP 15161307 A 20150327

Priority

DE 102014104516 A 20140331

IPC 8 full level

E21B 7/20 (2006.01); **E21B 10/32** (2006.01); **E21B 10/36** (2006.01); **E21B 10/62** (2006.01); **E21B 17/03** (2006.01)

CPC (source: EP US)

E21B 7/20 (2013.01 - EP); **E21B 10/32** (2013.01 - EP US); **E21B 10/36** (2013.01 - EP); **E21B 10/62** (2013.01 - EP); **E21B 10/66** (2013.01 - EP); **E21B 17/03** (2013.01 - EP)

Citation (search report)

- [X] AT 354960 B 19800211 - PANZER FERDINAND [AT]
- [X] US 1494274 A 19240513 - MORGAN JAMES G
- [X] US 2244674 A 19410610 - CADY CARL S

Cited by

CN109654138A; EP4006298A1; DE102020131532A1

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 2927417 A2 20151007; EP 2927417 A3 20160427; EP 2927417 B1 20181114; DE 102014104516 A1 20151001

DOCDB simple family (application)

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