

Title (en)

Expanding tool and device for expanding a passage in the ground

Title (de)

Aufweitwerkzeug und Vorrichtung zum Aufweiten einer im Erdreich vorhandenen Durchgangsöffnung

Title (fr)

Outil et dispositif d'agrandissement d'un passage existant dans le sol

Publication

EP 2863003 A3 20160113 (DE)

Application

EP 14187883 A 20141007

Priority

DE 102013111350 A 20131015

IPC 8 full level

E21B 7/28 (2006.01); **E21B 10/26** (2006.01); **E21B 10/28** (2006.01); **E21B 17/10** (2006.01)

CPC (source: EP US)

E21B 7/28 (2013.01 - EP); **E21B 10/28** (2013.01 - EP US); **E21B 17/10** (2013.01 - EP)

Citation (search report)

- [XII] US 2004188142 A1 20040930 - SELF KELVIN P [US], et al
- [X] DE 60125228 T2 20070927 - TRANSCO MFG AUSTRALIA PTY LTD [AU]
- [XII] US 6206109 B1 20010327 - MONIER DAVID J [US], et al
- [XII] EP 1820933 A1 20070822 - DOHERTY JOHN P [GB]

Cited by

CN112459739A; CN108049812A; EP3940192A1; DE102020119032A1

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 2863003 A2 20150422; EP 2863003 A3 20160113; DE 102013111350 A1 20150416

DOCDB simple family (application)

EP 14187883 A 20141007; DE 102013111350 A 20131015