

Title (en)

TUNNELING FOR UNDERGROUND POWER AND PIPELINES

Title (de)

TUNNELUNG FÜR UNTERIRDISCHE STROM- UND ROHRLEITUNGEN

Title (fr)

CREUSEMENT DE TUNNEL POUR CÂBLES ET PIPELINES SOUTERRAINS

Publication

EP 3679219 A4 20200715 (EN)

Application

EP 18865333 A 20181114

Priority

US 2018060961 W 20181114

Abstract (en)

[origin: WO2020101666A1] A tunnel boring machine including a propulsion system, an enclosure carried by the propulsion system, and a torch support structure carried by the enclosure. The torch support structure can include a primary disc mounted on a rotatable shaft carried by the enclosure, a first plurality of plasma torches mounted to the primary disc, and a power supply cable coupled to the enclosure and adapted to supply power to the boring machine from one or more power sources.

IPC 8 full level

E21B 7/14 (2006.01); **E21B 7/15** (2006.01); **E21D 9/10** (2006.01); **E21D 13/00** (2006.01)

CPC (source: EP)

E21B 7/14 (2013.01); **E21B 7/15** (2013.01); **E21D 9/1073** (2013.01); **E21D 13/00** (2013.01)

Citation (search report)

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- [XI] US 2014008124 A1 20140109 - MA YUCHEN [CN]
- [A] US 2016024849 A1 20160128 - KOCIS IVAN [SK], et al
- [X] US 2014231398 A1 20140821 - LAND MARK S [US], et al
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Cited by

US11655680B2

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)

WO 2020101666 A1 20200522; AU 2018438150 A1 20200528; CA 3071757 A1 20200514; EP 3679219 A1 20200715; EP 3679219 A4 20200715

DOCDB simple family (application)

US 2018060961 W 20181114; AU 2018438150 A 20181114; CA 3071757 A 20181114; EP 18865333 A 20181114