

Title (en)

AN APPARATUS FOR FORMING AN UNDERGROUND TUNNEL

Title (de)

VORRICHTUNG ZUR HERSTELLUNG EINES UNTERIRDISCHEN TUNNELS

Title (fr)

APPAREIL POUR LA FORMATION D'UN TUNNEL SOUTERRAIN

Publication

EP 2229505 B1 20170208 (EN)

Application

EP 08862215 A 20081217

Priority

- AU 2008001850 W 20081217
- AU 2007906904 A 20071217
- AU 2008900022 A 20080103

Abstract (en)

[origin: WO2009076710A1] The present disclosure provides an apparatus for forming an underground tunnel. The apparatus comprises a cutting head for removing material from a wall portion of the tunnel and thereby forming a portion of the tunnel. Further, the apparatus comprises a support structure for supporting a previously formed portion of the tunnel. The support structure is arranged to provide a supporting force against a surface of the tunnel when stationary and when being moved along the tunnel. Further, the apparatus comprises a conveyor for conveying removed material from the cutting head to a location remote from the cutting head during formation of the portion of the tunnel.

IPC 8 full level

E21D 9/12 (2006.01); **E21D 9/10** (2006.01); **E21D 20/00** (2006.01); **E21D 23/00** (2006.01)

CPC (source: EP)

E21D 9/1013 (2013.01); **E21D 9/12** (2013.01); **E21D 20/003** (2013.01); **E21D 23/0086** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2009076710 A1 20090625; AR 069719 A1 20100210; AU 2008338242 A1 20090625; CA 2708373 A1 20090625; CA 2708373 C 20180313; CL 2008003752 A1 20091211; CN 101970797 A 20110209; CN 101970797 B 20131120; EP 2229505 A1 20100922; EP 2229505 A4 20130327; EP 2229505 B1 20170208; NZ 586504 A 20121130; PL 2229505 T3 20170831; RU 2010129760 A 20120127; RU 2475650 C2 20130220; ZA 201004949 B 20111026

DOCDB simple family (application)

AU 2008001850 W 20081217; AR P080105479 A 20081217; AU 2008338242 A 20081217; CA 2708373 A 20081217; CL 2008003752 A 20081216; CN 200880121145 A 20081217; EP 08862215 A 20081217; NZ 58650408 A 20081217; PL 08862215 T 20081217; RU 2010129760 A 20081217; ZA 201004949 A 20100714