

Title (en)  
DEVICE FOR PRODUCING A CAVITY IN A SOIL

Title (de)  
VORRICHTUNG ZUM ERSTELLEN EINES HOHLRAUMS IN EINEM BODEN

Title (fr)  
DISPOSITIF POUR MÉNAGER UN ÉVIDEMMENT DANS UN SOL

Publication  
**EP 3488079 B1 20201209 (DE)**

Application  
**EP 17751257 A 20170712**

Priority  
• DE 102016008762 A 20160721  
• EP 2017067647 W 20170712

Abstract (en)  
[origin: WO2018015258A1] The invention relates to a device (10) for producing a cavity in a soil from a starting point to a target point along a drilling line for introducing timbering for holding the cavity open having a tunneling head (11), at the outer end of which at least one cutting element (12) for stripping the soil is provided, wherein the tunneling head (11) has a receiving chamber (15) which has an opening (16), to which a face conveyor line (17) is connected, and in which at least a first nozzle (21) for discharging a liquid for transporting the stripped soil away from the receiving chamber is provided, which first nozzle (21) is provided in such a way that the discharge opening thereof is oriented substantially in the direction of the face conveyor line, wherein the advancing drive takes place via an advancing device. It is provided here that at least one second nozzle (23) is provided which is arranged in such a way that the discharge opening thereof is directed substantially onto the soil to be stripped.

IPC 8 full level  
**E21D 9/06** (2006.01)

CPC (source: EP US)  
**E21B 7/18** (2013.01 - US); **E21B 7/20** (2013.01 - US); **E21B 10/60** (2013.01 - US); **E21B 10/61** (2013.01 - US); **E21D 9/06** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**DE 102016008762 A1 20180125**; CN 109715906 A 20190503; CN 109715906 B 20201222; DK 3488079 T3 20210308;  
EP 3488079 A1 20190529; EP 3488079 B1 20201209; EP 3763914 A1 20210113; EP 3763914 B1 20231115; EP 3763914 C0 20231115;  
EP 3822450 A1 20210519; ES 2858565 T3 20210930; ES 2967009 T3 20240425; PL 3488079 T3 20210823; PL 3763914 T3 20240408;  
PT 3488079 T 20210309; US 11118410 B2 20210914; US 2019284879 A1 20190919; WO 2018015258 A1 20180125

DOCDB simple family (application)  
**DE 102016008762 A 20160721**; CN 201780057880 A 20170712; DK 17751257 T 20170712; EP 17751257 A 20170712;  
EP 2017067647 W 20170712; EP 20194145 A 20170712; EP 20212422 A 20170712; ES 17751257 T 20170712; ES 20194145 T 20170712;  
PL 17751257 T 20170712; PL 20194145 T 20170712; PT 17751257 T 20170712; US 201716348852 A 20170712