

Title (en)

DEVICE FOR MONITORING THE STATE OF ROTATION OF A DISK CUTTER ARRANGEMENT OF A SHIELD TUNNEL BORING MACHINE  
AND DISK CUTTER ARRANGEMENT FOR A SHIELD TUNNEL BORING MACHINE

Title (de)

VORRICHTUNG ZUM ÜBERWACHEN DES DREHZUSTANDES EINER SCHNEIDROLLENANORDNUNG EINER  
SCHILDVORTRIEBSMASCHINE UND SCHNEIDROLLENANORDNUNG FÜR EINE SCHILDVORTRIEBSMASCHINE

Title (fr)

DISPOSITIF POUR SURVEILLER LA ROTATION D'UN SYSTÈME DE GALETS DE COUPE D'UN ENGIN D'AVANCEMENT AU BOUCLIER ET  
SYSTÈME DE GALETS DE COUPE POUR UN ENGIN D'AVANCEMENT AU BOUCLIER

Publication

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Application

**EP 12766865 A 20120914**

Priority

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Abstract (en)

[origin: CA2848938A1] A compact monitoring device (6) for monitoring the state of rotation of a disk cutter (5) of a shield tunnel boring machine is integrated into a clamping element (15) for fastening the disk cutter (5). A sensor module (33) of the monitoring device (6) is arranged in close proximity to the disk cutter (5) but without touching so that a state of rotation of the disk cutter (5) generated by transmitters (34) mounted in the disk cutter (5) is reliably ensured even under the rough environmental conditions prevailing in shield tunnel boring.

IPC 8 full level

**E21D 9/10** (2006.01)

CPC (source: EP US)

**E21D 9/003** (2013.01 - EP US); **E21D 9/0879** (2016.01 - EP US); **E21D 9/104** (2013.01 - EP US); **E21D 9/108** (2013.01 - EP US);  
**E21D 9/112** (2013.01 - EP US)

Citation (search report)

See references of WO 2013050010A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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JP 2014528527 A 20141027; JP 5957530 B2 20160727; NZ 622696 A 20141224; US 2014232167 A1 20140821; US 9181800 B2 20151110;  
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