

Title (en)

PRECISION SENSOR FOR DETERMINING MECHANICAL CONSTRAINTS ON A CUTTING TOOL OF A TUNNEL CUTTING MACHINE

Title (de)

HOCHPRÄZISE SENSORIK ZUM ERMITTELN EINER MECHANISCHEN BELASTUNG EINES ABBAUWERKZEUGS EINER TUNNELBOHRMASCHINE

Title (fr)

CAPTEUR DE PRÉCISION POUR DÉTERMINER UNE CONTRAINTE MÉCANIQUE SUR UN OUTIL E COUPE D'UN TUNNELIER

Publication

EP 3129593 A1 20170215 (DE)

Application

EP 15713516 A 20150402

Priority

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- EP 2015057361 W 20150402

Abstract (en)

[origin: CA2944967A1] A mining tool (100) for a drill head (150) of a tunnel boring machine (180) for mining in rock (102), wherein the mining tool (100) has a roller cutter fastening device (104), mountable on the drill head (150), for accommodating and mounting a rotatable roller cutter (106), the roller cutter (106) for mining in rock (102) is accommodated or in particular can be interchangeably accommodated rotatably in the roller cutter fastening device (104), and a sensor arrangement (112) for detecting a mechanical load of the mining tool (100), in particular of the roller cutter (106), wherein the sensor arrangement (112) is formed at least partially in the roller cutter fastening device (104) and/or on the sleeve (177) mounted on the roller cutter (106) with at least one load-sensitive element (108) mounted thereon.

IPC 8 full level

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CPC (source: CN EP RU US)

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Citation (search report)

See references of WO 2015155124A1

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