

Title (en)

Expanding device in a cutting tool for a tunnel boring machine

Title (de)

Kaliberaufweitungsschneidwerkzeug für Tunnelbohrmaschinen

Title (fr)

Dispositif d'expansion dans un outil de coupe pour une machine de forage de tunnels

Publication

EP 1333153 A1 20030806 (DE)

Application

EP 02002618 A 20020205

Priority

EP 02002618 A 20020205

Abstract (en)

The cutting ring (201) can be moved along the roll hub (200) in the axial direction. An Independent claim is also included for a method for increasing the diameter of a tunnel using a tunnel boring machine with its drill bit modified to take the above cutting roll (20), in which the drill bit is first of all fitted with a first cutting roll to increase tunnel diameter to a first size and then fitted with a second cutting roll to increase tunnel diameter to a second size.

Abstract (de)

Es wird eine Kaliberaufweitungs-Schneidrolle (20) für Tunnelbohrmaschinen vorgeschlagen, die eine Nabe (200) und einen auf dieser Nabe (200) angeordneten Schneidring (201) umfasst. Der Schneidring (201) ist in axialer Richtung (206) auf der Nabe (200) verschiebbar angeordnet.
<IMAGE>

IPC 1-7

E21D 9/10

IPC 8 full level

E21D 9/10 (2006.01)

CPC (source: EP)

E21D 9/104 (2013.01)

Citation (search report)

- [A] EP 0704600 A2 19960403 - WIRTH CO KG MASCH BOHR [DE]
- [A] US 5234064 A 19930810 - LENABURG CARL E [US]
- [A] US 3982595 A 19760928 - OTT EUGENE GRAY
- [A] DE 29905981 U1 20000831 - WIRTH CO KG MASCH BOHR [DE]
- [A] US 5598895 A 19970204 - ANDERSON LLEWELLAN [US], et al
- [A] US 4454923 A 19840619 - TIBUSSEK FRITZ [DE]
- [A] US 5961185 A 19991005 - FRIANT JAMES E [US], et al
- [A] DE 3439748 A1 19860430 - GEWERK EISENHUETTE WESTFALIA [DE]
- [A] DE 2500961 A1 19760715 - DEMAG AG

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