

Title (en)  
TUNNELLING PROCESS AND DEVICE

Title (de)  
VERFAHREN UND VORRICHTUNG IM TUNNELBAU

Title (fr)  
PROCEDE ET SYSTEME POUR LA CONSTRUCTION DE TUNNELS

Publication  
**EP 0918921 B1 20030115 (DE)**

Application  
**EP 97918982 A 19970814**

Priority  

- DE 19633056 A 19960816
- DE 19650330 A 19961204
- EP 9704418 W 19970814

Abstract (en)  
[origin: US6315496B1] The present invention relates to a tunneling method starting from the working face in the driving direction, a bearing layer being laid as the working face progresses and then carried away together with the debris. The inventive system includes at the front an excavating tool capable of removing broken rock up to a certain width and a certain height, and an advancing device for moving forward and steering the system, and a control and setting device for controlling and regulating the operation of the excavating tool and the advancing device.

IPC 1-7  
**E21D 9/10**

IPC 8 full level  
**E21D 9/04** (2006.01); **E21D 9/10** (2006.01)

CPC (source: EP US)  
**E21D 9/1053** (2013.01 - EP US)

Citation (examination)  
DE 1658769 B1 19700618 - WOLFF & MUELLER

Cited by  
CN102061923A

Designated contracting state (EPC)  
AT DE ES FR GB IT

DOCDB simple family (publication)  
**US 6315496 B1 20011113**; AT E231212 T1 20030215; AU 4299197 A 19980306; CA 2263299 A1 19980226; CN 1083050 C 20020417; CN 1233311 A 19991027; DE 19780877 D2 20000824; EP 0918921 A1 19990602; EP 0918921 B1 20030115; ES 2192266 T3 20031001; HK 1024283 A1 20001005; JP 2002513452 A 20020508; WO 9807961 A1 19980226

DOCDB simple family (application)  
**US 24210499 A 19990208**; AT 97918982 T 19970814; AU 4299197 A 19970814; CA 2263299 A 19970814; CN 97198820 A 19970814; DE 19780877 T 19970814; EP 9704418 W 19970814; EP 97918982 A 19970814; ES 97918982 T 19970814; HK 00102545 A 20000427; JP 51036298 A 19970814