

Title (en)  
Anchoring device with a seismic sensor

Title (de)  
Verankerungseinrichtung mit seismischem Sensor

Title (fr)  
Dispositif d'ancrage avec un capteur sismique

Publication  
**EP 1001134 A1 20000517 (DE)**

Application  
**EP 99120626 A 19991018**

Priority  
DE 19852455 A 19981113

Abstract (en)  
The arrangement has an anchoring rod (21) and an anchoring head with at least one vibration sensor mounted on the anchoring rod. Several vibration sensors (25-27) can be mounted at different relative positions in relation to the longitudinal axis of the anchoring rod. The sensors can be mounted in a fitting on the end of the rod remote from the anchoring head with a cable guide (22) from the sensors to the head. Independent claims are also included for a system anchoring arrangement for tunnel construction and for a method of high resolution seismic tomography.

Abstract (de)  
Eine Verankerungseinrichtung mit einem Ankerstab (21) und einem Ankerkopf oder ein Aufnehmerstab zur Seismik und Tomographie von Gebirgszonen, besitzt mindestens einen am Ankerstab (21) angebrachten Schwingungssensor (25-27). Es wird ein Verfahren zur hochauflösenden Seismik oder Tomographie von Gebirgszonen oder Bauwerken beschrieben. <IMAGE>

IPC 1-7  
**E21D 21/00**; **E21D 9/00**

IPC 8 full level  
**E21D 9/10** (2006.01); **E21D 9/00** (2006.01); **E21D 21/00** (2006.01); **E21F 17/18** (2006.01); **G01V 1/20** (2006.01)

CPC (source: EP)  
**E21D 9/004** (2013.01); **E21D 21/0026** (2013.01); **E21F 17/185** (2013.01)

Citation (applicant)  
WO 9819044 A1 19980507 - GEOFORSCHUNGSZENTRUM POTSDAM [DE], et al

Citation (search report)  
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DOCDB simple family (application)  
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