

Title (en)

METHOD AND DEVICE FOR MONITORING UNDERGROUND INSTALLATIONS

Title (de)

VERFAHREN UND EINRICHTUNG ZUR ÜBERWACHUNG UNTERIRDISCHER ANLAGEN

Title (fr)

PROCEDE ET DISPOSITIF POUR SURVEILLER DES INSTALLATIONS SOUTERRAINES

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Application

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Abstract (en)

[origin: US2004089081A1] The invention relates to a method and apparatus for monitoring underground installations in which natural or forced flows are prevailing, such as tunnels, passages, canals, and the like, by at least sectional detection and evaluation of changing physical and/or chemical characteristics over the entire length of the installation to be monitored, whereby an alarm is released in case an admissible parameter is exceeded. The object of the invention is to provide a method of monitoring an underground installation which makes possible a high degree of reliability at reasonable economic expense. In particular, a quick and spatially precise localization is to be possible. In the device required therefor, simple and robust detectors are to be used. In accordance with the invention the physical and/or chemical characteristics are detected and evaluated in each section transversely of the flow (7) of air over the structural clearance profile of the underground installation. For this purpose the sensors and/or suction nozzles (4, 8) in each section are arranged over the structural clearance profile of the underground installation in a plane transversely of the flow (7) of the air.

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