

Title (en)
MONITORING APPARATUS

Title (de)
VORRICHTUNG ZUR 2D/3D-ÜBERWACHUNG VON GEOTECHNISCHEN, GEOLOGISCH-STRUKTURELLEN, HYDROGEOLOGISCH UND GEOPHYSISCHE PARAMETERN VON BÖDEN, GESTEIN UND STRUKTUREN IM ALLGEMEINEN

Title (fr)
APPAREIL DE SURVEILLANCE 2D/3D DE PARAMÈTRES GÉOTECHNIQUES, GÉOLOGIQUES-STRUCTURAUX, HYDROGÉOLOGIQUES ET GÉOPHYSIQUES DE SOLS, DE ROCHES ET DE STRUCTURES EN GÉNÉRAL

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Abstract (en)
[origin: WO2017191564A1] Apparatus for monitoring geotechnical, geological- structural, hydrogeological and geophysical parameters of soils, rocks and structures in general and more generally of works of geotechnical, mining and structural engineering in general, which apparatus comprises : two or more rigid elements housing sensors measuring said parameters, and which rigid elements are arranged in sequence being connected with one another by a deformable connection element. At least a part of said rigid elements is provided with members removably locking in position the apparatus cooperating with the walls of a borehole drilled in the soil or in a medium to be monitored. The invention provides a compressible and extensible extensometric/settlement metering tube lining the borehole, secured to the walls of the borehole, while the rigid elements are provided with radial friction locking extensions cooperating with the inner wall of said tube and elastically compressible and said rigid elements are made telescopically deployable and retractable and comprise a sensor measuring the axial deployment or retraction.

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