

Title (en)
Underground soil excavation

Title (de)
Unterwasser-Erdabtragung

Title (fr)
Excavation de déchets souterrains

Publication
EP 2610587 A1 20130703 (EN)

Application
EP 12198998 A 20121221

Priority
• EP 11195778 A 20111227
• EP 12198998 A 20121221

Abstract (en)
In a method of excavating an underground space in the soil below an overlaying structure, the method comprises providing a compensation liquid, providing a plurality of compensation tubes for conveying said compensation liquid, each of said compensation tubes comprising a number of outlets for allowing said compensation liquid to pass from said compensation tube into the surrounding medium. The method further comprises positioning said plurality of compensation tubes in said soil below said structure, excavating said underground space in said soil below said plurality of compensation tubes and monitoring the overlaying structure for detecting changes in the structure due to said excavating of said underground space. Provided a change in the structure is detected, then said compensation liquid is injected into said soil through one or more of said plurality of compensation tubes into said soil.

IPC 8 full level
E02D 3/115 (2006.01); **E21B 7/04** (2006.01); **E21B 47/022** (2012.01); **E21B 47/10** (2012.01); **E21D 1/14** (2006.01); **E21D 9/00** (2006.01); **G01C 1/00** (2006.01)

CPC (source: EP)
B28D 1/14 (2013.01); **B28D 1/146** (2013.01); **E02D 3/115** (2013.01); **E21B 7/046** (2013.01); **E21B 47/0236** (2020.05); **E21D 9/001** (2013.01)

Citation (applicant)
• US 3528252 A 19700915 - GAIL CHARLES P
• EP 0774566 A1 19970521 - FLOWTEX TECHNOLOGIE IMPORT VON [DE]
• EP 1632749 A1 20060308 - BOUYGUES TRAVAUX PUBLICS [FR]
• WO 0134941 A1 20010517 - BALLAST NEDAM INFRA B V [NL], et al

Citation (search report)
• [Y] EP 0774566 A1 19970521 - FLOWTEX TECHNOLOGIE IMPORT VON [DE]
• [Y] WO 0134941 A1 20010517 - BALLAST NEDAM INFRA B V [NL], et al
• [A] US 3528252 A 19700915 - GAIL CHARLES P
• [A] EP 1632749 A1 20060308 - BOUYGUES TRAVAUX PUBLICS [FR]

Cited by
CN112943220A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2610586 A1 20130703; EP 2610587 A1 20130703; EP 2610587 B1 20171115

DOCDB simple family (application)
EP 11195778 A 20111227; EP 12198998 A 20121221