

Title (en)
Method for consolidating and impermeabilizing the ground around a tunnel

Title (de)
Verfahren zur Konsolidierung und Wasserabdichtung des Bodens um einen Tunnel

Title (fr)
Procédé pour consolider et imperméabiliser le sol autour d'un tunnel

Publication
EP 1757771 A2 20070228 (EN)

Application
EP 06119250 A 20060821

Priority
IT TO20050586 A 20050823

Abstract (en)
A set of primary blocks of artificial conglomerate (10, 11) spaced apart from each other around the portion of ground (T) which has to be excavated is formed using jet grouting techniques in a vertical plane transverse to the axis of the tunnel which has to be excavated. A set of infill blocks of artificial conglomerate (20, 21) each located between two consecutive primary blocks in order to firmly connect them together is then formed. Each infill block has an outer portion (22) which extends over the outer surfaces (13-16) of two consecutive primary blocks (10, 11). A continuous closed ring structure is thus obtained. By repeating these operations alongside the structure already formed, a continuous tubular structure of artificial conglomerate is obtained.

IPC 8 full level
E21D 9/00 (2006.01); **E02D 3/12** (2006.01)

CPC (source: EP)
E02D 3/12 (2013.01); **E21D 9/001** (2013.01)

Citation (applicant)
JP H10205274 A 19980804 - MAEDA CONSTRUCTION

Cited by
CN106930769A; CN107013231A; CN111236951A; CN112982371A; DE102010036901A1; CN106351215A; CN112031706A

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AL BA HR MK YU

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