

Title (en)
Ground improvement

Title (de)
Verfahren zur Verbesserung eines Baugrundes

Title (fr)
Procédé de compaction du sol

Publication
EP 1382750 B1 20090819 (EN)

Application
EP 03254512 A 20030718

Priority
• GB 0216701 A 20020718
• GB 0225943 A 20021107

Abstract (en)
[origin: EP1382751A1] A cavity 16 is formed by repeatedly vibrating an elongate lance member into the ground, withdrawing it, and introducing additional material into the cavity prior to the process being repeated. The additional material is formed by mixing soil and ground amelioration material, particularly a cementitious binder. The cavity 16 will burst outwardly, such as at 38, as additional material is introduced and compacted. The process is repeated until heave 39 is detected in the ground, around the position being treated. <IMAGE>

IPC 8 full level
E02D 3/054 (2006.01); **E01C 3/04** (2006.01); **E01C 7/36** (2006.01); **E02D 3/02** (2006.01); **E02D 3/08** (2006.01)

CPC (source: EP)
E01C 3/04 (2013.01); **E01C 7/36** (2013.01); **E02D 3/054** (2013.01); **E02D 3/08** (2013.01)

Cited by
GB2595274A; GB2595274B; EP1498550A3; WO2011001297A1; WO2017147424A1; US10196793B2; US11085160B2; US12031287B2

Designated contracting state (EPC)
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EP 1382751 A1 20040121; **EP 1382751 B1 20090819**; AT E440182 T1 20090915; AT E440183 T1 20090915; DE 60328853 D1 20091001; DE 60328854 D1 20091001; EP 1382750 A1 20040121; EP 1382750 B1 20090819; ES 2331238 T3 20091228; ES 2331239 T3 20091228; GB 0316860 D0 20030820; GB 0316861 D0 20030820; GB 2391035 A 20040128; GB 2391035 B 20050504; GB 2391036 A 20040128; GB 2391036 B 20050504

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EP 03254513 A 20030718; AT 03254512 T 20030718; AT 03254513 T 20030718; DE 60328853 T 20030718; DE 60328854 T 20030718; EP 03254512 A 20030718; ES 03254512 T 20030718; ES 03254513 T 20030718; GB 0316860 A 20030718; GB 0316861 A 20030718