

Title (en)
A method and device for forming a pile

Title (de)
Verfahren und Apparat zur Herstellung eines Pfahls

Title (fr)
Procédé et dispositif pour réaliser un pieu de fondation

Publication
EP 1600560 B1 20091216 (EN)

Application
EP 04447134 A 20040528

Priority
EP 04447134 A 20040528

Abstract (en)
[origin: EP1600560A1] A method of forming a mixed pile in subsoil layers, comprising drilling a hole into the soil layers, loosening and mixing the soil inside the bore hole with a binding agent to stabilize said soil and form the mixed pile, wherein the hole is formed by introducing an assembly of a tube and a rotationally driven hollow mixing member into the subsoil layers, said mixing member extending substantially inside of and coaxially with said tube and being provided with a plurality of mixing blades, wherein the binding agent is injected through the hollow core of the mixing member, and wherein the assembly is removed by pulling it upward, characterized in that, the soil inside the bore hole is loosened by the cutting action of high-pressure jets, whilst at least a hardening binding agent is added to the loosened materials and the whole is mixed by means of the mechanical action of the blades and by the created turbulence of the high-pressure jets <IMAGE>

IPC 8 full level
E02D 3/12 (2006.01); **E02D 5/46** (2006.01)

CPC (source: EP)
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Citation (examination)
DE 10216952 A1 20031023 - HARALD GOLLWITZER GMBH [DE]

Cited by
CN106906709A; CN105254223A; CN104674800A; JP2018021324A; JP2017066855A; JP2020143575A; JP2019065481A; CN113718763A; WO2022057437A1; EP3361040B1

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