

Title (en)

METHOD OF STABILISING SOILS SO AS TO IMPROVE THEIR BEARING CAPACITY

Publication

EP 0135478 B1 19880107 (DE)

Application

EP 84810421 A 19840827

Priority

CH 480683 A 19830901

Abstract (en)

[origin: EP0135478A1] 1. A method of stabilizing soft, fine-grained soils, such as silts, fine sands, etc., without weight densification to obtain enhanced rapid strength properties which allow the soil to be loaded only a few hours after stabilization, the soil to be stabilized being prepared by in situ mixing processes with the addition of at least one silicate-containing binder, characterized in that the soil layer to be stabilized is first brought into a slurry condition by the addition of a mixture of water and the silicate-containing binder, where-after a plurality of individual reinforcing particles whose main dimension corresponds at most to the thickness of the soil layer to be stabilized are uniformly distributed in the resulting slurry.

IPC 1-7

E02D 3/00; **E01C 3/04**; **E04C 5/01**

IPC 8 full level

E01B 1/00 (2006.01); **E01B 2/00** (2006.01); **E01C 3/04** (2006.01); **E02D 3/00** (2006.01); **E04C 5/01** (2006.01); **E04C 5/07** (2006.01)

CPC (source: EP)

E01B 1/001 (2013.01); **E01B 2/00** (2013.01); **E01C 3/04** (2013.01); **E02D 3/00** (2013.01); **E04C 5/012** (2013.01); **E04C 5/073** (2013.01); **E01B 2204/03** (2013.01); **E01B 2204/05** (2013.01)

Citation (examination)

DE 3127350 A1 19830127 - RIBBERT HANS

Cited by

CN104762859A; CN111549600A; CN116289375A; US5511485A; EP0285622A4; DE19535230B4; US6042305A; CN102767128A; CN112112026A; DE202006019143U1; GB2258874A; DE4013801A1; CN108642988A; CN111218861A; CN114032723A; US6858593B2; WO2015149924A1; WO20212627A1

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0135478 A1 19850327; **EP 0135478 B1 19880107**; CH 664405 A5 19880229; DE 3468465 D1 19880211

DOCDB simple family (application)

EP 84810421 A 19840827; CH 480683 A 19830901; DE 3468465 T 19840827