

Title (en)  
Apparatus for consolidating soil.

Title (de)  
Bodenverfestigungsgerät.

Title (fr)  
Appareil pour consolider le sol.

Publication  
**EP 0411560 B1 19940504 (EN)**

Application  
**EP 90114666 A 19900731**

Priority  
• IT 348890 A 19900508  
• IT 359289 A 19890803

Abstract (en)  
[origin: EP0411560A2] The apparatus for consolidating soil comprises a mixing-disaggregation tool (15, 113) which is applied to the lower end of a vertical rotating shaft (7, 108) which, after being placed at a point of the region of the soil to be consolidated, is caused to advance into the soil with the simultaneous introduction of air and, if necessary, of water. Once the required depth has been reached, a consolidating agent is introduced in the soil through appropriate holes (19, 24, 183) defined proximate to the disaggregation-mixing tool (15, 113) while the lifting of the tools is simultaneously performed.

IPC 1-7  
**E02D 3/12**

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

CPC (source: EP)  
**E02D 3/126** (2013.01)

Cited by  
US6517292B1; EP1748110A3; ES2125116A1; US7090436B2; AU2005269461B2; EP2395153A1; EP1771627A4; NO340102B1; GB2253424A; FR2673652A1; GB2253424B; ES2065795A2; CN107476774A; WO2006014926A1; WO0026477A1; WO2007095123A2; US7341405B2; WO2007095123A3; WO9302257A1

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