

Title (en)  
Piles.

Title (de)  
Pfähle.

Title (fr)  
Pieux.

Publication  
**EP 0097525 A2 19840104 (EN)**

Application  
**EP 83303569 A 19830621**

Priority  
US 39019982 A 19820621

Abstract (en)  
Piles for acting as supports or strengthening members comprise hollow, rigid tubular members including a pointed end and a plurality of holes in which are mounted pivotable sharp members 4. The pile is inserted into a pre-formed hole in the ground with the sharp members 4 retracted and a heavy tool is passed through the pile to force the sharp members 4 outwardly into the ground. The piles have much improved bearing load capacity.

IPC 1-7  
**E02D 5/54**

IPC 8 full level  
**E02D 5/54** (2006.01)

CPC (source: EP)  
**E02D 5/54** (2013.01)

Cited by  
US4889451A; LU502585B1; US4637757A; US4733994A; US4813816A; GB2414032A; GB2414032B; WO2022055358A1

Designated contracting state (EPC)  
AT CH DE FR IT LI NL SE

DOCDB simple family (publication)  
**EP 0097525 A2 19840104; EP 0097525 A3 19840208; EP 0097525 B1 19860917**; AT E22332 T1 19861015; DE 3366260 D1 19861023; GB 2123067 A 19840125; GB 2123067 B 19860102; GB 8316822 D0 19830727

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