

Title (en)  
FLEXIBLE ROCK ANCHOR

Publication  
**EP 0257645 B1 19901219 (DE)**

Application  
**EP 87112479 A 19870827**

Priority  
DE 3629365 A 19860829

Abstract (en)  
[origin: US4798501A] The flexible earth anchor useful for reinforcing underground structures such as a traverse is insertable in a hole in the ground to a certain depth and is attachable with the walls of the hole at its end facing the deepest portion of the hole or along its entire length. Advantageously an adhesive means is used for the attachment. The anchor is constructed from a plurality of lamella in close contact with each other and slidable against each other. Advantageously the lamella are made from sheet metal in a continuous manufacturing process and are attached together by welding. They can be spread out at their inserted end in the hole to provide a better bond to the adhesive and held together by a ring. A sleeve can be provided at the chamber end which is attached by welding to the lamella and which can be used to rotate the earth anchor during the adhesion process.

IPC 1-7  
**E21D 21/00**

IPC 8 full level  
**E21D 21/00** (2006.01)

CPC (source: EP US)  
**E21D 21/0006** (2013.01 - EP US); **E21D 21/0033** (2013.01 - EP US); **E21D 21/006** (2016.01 - EP US)

Cited by  
GB2290119A; US5699572A; US5560740A

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

DOCDB simple family (publication)  
**EP 0257645 A1 19880302**; **EP 0257645 B1 19901219**; AT E59210 T1 19910115; DE 3629365 A1 19880303; DE 3766777 D1 19910131; US 4798501 A 19890117

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**EP 87112479 A 19870827**; AT 87112479 T 19870827; DE 3629365 A 19860829; DE 3766777 T 19870827; US 8973987 A 19870826