

Title (en)

Device for separating the tension rod of a soil anchor at a provided location

Title (de)

Vorrichtung zum Durchtrennen des Zugglieds eines Verpressankers an einer vorgegebenen Stelle

Title (fr)

Dispositif pour séparer la barre tendue d'un ancrage à boulon dans un lieu prédestiné

Publication

EP 0583725 B1 19960131 (DE)

Application

EP 93112845 A 19930811

Priority

CH 255592 A 19920817

Abstract (en)

[origin: CA2104146A1] An arrangement for severing a tension member of a permanent soil anchor of ferromagnetic material at a predetermined location includes a coil surrounding the tension member in a tubular manner at the predetermined location, wherein the coil is mountable together with the tension member. A high temperatureresistant thermal insulation layer is provided underneath the coil and a tubular core is arranged between the high temperatureresistant layer and the tension member, so that the coil forms a primary winding and the core forms a first secondary winding and the tension member forms a second secondary winding. The tension member is severed by applying an electric current having a frequency of approximately 5 to 30 kHz and a voltage of approximately 500 to 800 V to the coil, so that the tensile strength of the tension member is reduced at the predetermined breaking point by the heat produced by induction resulting from the electric current.

IPC 1-7

E02D 5/76

IPC 8 full level

E02D 5/80 (2006.01); **E02D 5/76** (2006.01)

CPC (source: EP US)

E02D 5/765 (2013.01 - EP US); **Y10T 83/0414** (2015.04 - EP US)

Cited by

EP3321423A1; EP2998447A1; WO2018086781A1; EP0721030A1; CH702926B1; WO2015127959A1; WO2011116483A3; WO2011116483A2; DE202017102490U1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0583725 A1 19940223; **EP 0583725 B1 19960131**; AT E133734 T1 19960215; CA 2104146 A1 19940218; CH 681835 A5 19930528; DE 59301539 D1 19960314; JP 3163207 B2 20010508; JP H06158656 A 19940607; NO 932906 D0 19930816; NO 932906 L 19940218; US 5389765 A 19950214

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