

Title (en)

A machine for pile-driving, a method for transport and erection of a machine for pile-driving, and a method for establishment of a foundation.

Title (de)

Pfahlramme, Verfahren zum Transport und zur Aufstellung einer Pfahlramme und Verfahren zur Herstellung einer Gründung.

Title (fr)

Engin de battage, procédé pour le transport et l'érection de l'engin de battage et procédé pour l'établissement d'une fondation.

Publication

EP 0392309 A2 19901017 (EN)

Application

EP 90106279 A 19900402

Priority

DK 173289 A 19890411

Abstract (en)

A machine for pile-driving comprises a driving chassis (3) with wheels (5,6) for moving on railway or road, and an upper part (4) pivotally mounted about a vertical swivel axis (13) on the driving chassis. A mast (15) with slide guide (17) for a hammer mechanism (16) is connected to the upper part. The mast may be erected to substantially vertical position for the purpose of pile-driving and may be lowered into substantially horizontal position for the purpose of transport. According to the invention the mast is connected to the upper part by a telescopically extensible and contractible boom having a base part (28) being connected to the upper part of the machine by means of a hinge with a hinge axis (44) perpendicularly to the swivel axis of the upper part, and a telescopically extensible part (29) connected to the base part, said mast being mounted to said part (29) by a hinge having its axis (49) substantially parallel to the hinge axis of the base part. It is hereby achieved that the mast may be erected while the vehicle is standing on a track above which an electric overhead traction wire is mounted. The invention also relates to a method for transport and erection of such a machine and a method for placing of foundations next to a railway track.

IPC 1-7

E01B 37/00; E02D 7/16

IPC 8 full level

E02D 7/16 (2006.01)

CPC (source: EP)

E02D 7/16 (2013.01)

Cited by

CN100455729C; US5551519A; AU675791B2; JP2016141937A; EP0984105A1; EP0777018A1; WO9325765A1; WO2010124386A1; EP2557232A1; US6234719B1; US8764347B2; WO2022228833A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0392309 A2 19901017; EP 0392309 A3 19910904; EP 0392309 B1 19940810; AT E109845 T1 19940815; DE 392309 T1 19930812; DE 69011381 D1 19940915; DE 69011381 T2 19950302; DK 0392309 T3 19941003; DK 167577 B1 19931122; DK 173289 A 19901012; DK 173289 D0 19890411; ES 2021566 A4 19911116; ES 2021566 T3 19941201

DOCDB simple family (application)

EP 90106279 A 19900402; AT 90106279 T 19900402; DE 69011381 T 19900402; DE 90106279 T 19900402; DK 173289 A 19890411; DK 90106279 T 19900402; ES 90106279 T 19900402