

Title (en)

EXCAVATING MACHINE COMPRISING A STEERING TUBE THAT ENABLES THE ROTATION OF THE CHASSIS

Title (de)

AUSHUBGERÄT, DAS MIT EINER FÜHRUNGSLEITUNG ZUR DREHUNG DES GESTELLS AUSGESTATTET IST

Title (fr)

MACHINE D'EXCAVATION COMPRENANT UN TUBE DE GUIDAGE PERMETTANT LA ROTATION DU CHASSIS

Publication

**EP 3569774 B1 20210113 (FR)**

Application

**EP 19181576 A 20121029**

Priority

- FR 1160036 A 20111104
- EP 12190421 A 20121029

Abstract (en)

[origin: EP2589706A1] The machine has a guide tube (30) mounted at an upper end of a mast of a carrier track. A frame is suspended on the mast, and includes a lower part (16b) carrying an excavation device (20) and an upper part (16a) with a coupling element (40) coaxial to a longitudinal axis. The frame is moved between a coupled position in which the element is rotatively coupled with a coupling device (38) of a moving part (34) i.e. telescopic tube, of the tube to pivot the frame around the axis by rotating the moving part, and an uncoupled position in which the element is uncoupled from the coupling device. An independent claim is also included for a method for excavating a ground by using an excavation machine.

IPC 8 full level

**E02F 3/47** (2006.01); **E02D 17/13** (2006.01); **E02F 3/36** (2006.01)

CPC (source: EP)

**E02D 17/13** (2013.01); **E02F 3/3681** (2013.01); **E02F 3/475** (2013.01)

Citation (opposition)

Opponent : Liebherr-Werk Nenzing GmbH

- DE 69204245 T2 19960321 - SOL COMP DU [FR]
- JP 2003041611 A 20030213 - OHBAYASHI CORP
- CN 201635104 U 20101117 - XUZHOU BOHUI TORQUE MACHINE MANUFACTURE CO LTD
- JP S5028506 U 19750401
- EP 0872596 A2 19981021 - SOILMEC SPA [IT]
- DE 8910776 U1 19891214
- IT 1235322 B 19920626 - ENTECO SRL [IT]
- ANONYMOUS: "Prospekt "Verdreheinrichtung; Hydraulic Grab - Rotating Device", BAUER DHG, 1 October 2005 (2005-10-01), pages 1 - 2, XP055866006
- "Casagrande Tec Baya diaphragm wall grab piling equipment", YOUTUBE VIDEO, 9 December 2011 (2011-12-09), Retrieved from the Internet <URL:https://www.toutube.com/watch?v=NmhLZCmKbZE>
- "Spezialtiefbau, Kompendium Verfahrenstechnik und Geräteauswahl band II", 1 January 2009, ERNST & SOHN, article ANONYMOUS: "Schlitzwandherstellung Im greiferverfahren", pages: 6 - 7, XP055866015
- ANONYMOUS: "attrezzature per diaframmi Equipment for diaphragm walls", ENTECO, 1 January 1989 (1989-01-01), pages 1 - 6, XP055866025

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2589706 A1 20130508; EP 2589706 B1 20200304**; EP 3569774 A1 20191120; EP 3569774 B1 20210113; ES 2797652 T3 20201203; ES 2864426 T3 20211013; FR 2982284 A1 20130510; FR 2982284 B1 20131213

DOCDB simple family (application)

**EP 12190421 A 20121029**; EP 19181576 A 20121029; ES 12190421 T 20121029; ES 19181576 T 20121029; FR 1160036 A 20111104