

Title (en)
EXCAVATING ASSEMBLY AND OPERATING MACHINE COMPRISING THIS ASSEMBLY

Title (de)
BAGGERANORDNUNG UND ARBEITSMASCHINE MIT DIESER ANORDNUNG

Title (fr)
ENSEMBLE D'EXCAVATION ET MACHINE D'EXPLOITATION COMPRENANT LEDIT ENSEMBLE

Publication
EP 3719209 A2 20201007 (EN)

Application
EP 20167603 A 20200401

Priority
IT 201900004936 A 20190402

Abstract (en)
The present invention relates to an excavating assembly (100) comprising- at least one excavating apparatus (1) that can be used directly connected to an operating machine (106) for excavating trenches or removing layers of tarmac along curvilinear traveling paths and along linear traveling paths in an operating surface (Z);- said excavating apparatus (1) comprising an excavating tool (8);- said excavating tool (8) comprising an excavating tool axis of rotation (R) that is substantially parallel to the operating surface (Z);- said excavating apparatus (1) comprising an excavating drive device or excavating drive motor (52) that actuate, and can be moved integrally with, the excavating tool (8);- said assembly (100) also comprising a rotary support (101);- said rotary support (101) comprising an excavator attachment saddle support (102) that can be connected to an operating machine (106), for example an excavator comprising a movable excavator arm (103);- said rotary support (101) comprising a lower framework (104);- said lower framework (104) being rotatably connected to said excavator attachment saddle (102) such that it rotates about a rotary support axis of rotation (V) that is substantially perpendicular to said operating surface (Z) ;- said rotary support (101) comprising a driving motor (105) for rotating the support or support motor, which actuates, and can move integrally with, the excavator attachment saddle support (102) and initiates the rotational movement of said lower framework (104);- said excavating apparatus (1) being detachably connected to said lower framework (104) such that, by rotating said lower framework (104) with respect to said attachment saddle (102), said excavating tool (8) travels along a circular path.

IPC 8 full level
E02F 3/20 (2006.01); **E01C 23/088** (2006.01); **E01C 23/09** (2006.01); **E02D 29/14** (2006.01); **E02F 3/18** (2006.01); **E02F 3/24** (2006.01); **E02F 3/36** (2006.01); **E02F 3/96** (2006.01); **E02F 5/08** (2006.01)

CPC (source: EP)
E01C 23/088 (2013.01); **E01C 23/0933** (2013.01); **E02D 29/1445** (2013.01); **E02F 3/183** (2013.01); **E02F 3/188** (2013.01); **E02F 3/246** (2013.01); **E02F 3/3609** (2013.01); **E02F 3/96** (2013.01); **E02F 5/08** (2013.01)

Citation (applicant)

- US 8011851 B1 20110906 - CRITES MICHAEL [US]
- US 8646847 B2 20140211 - COCHRAN GARY L [US], et al
- US 5522646 A 19960604 - FRIEDMAN GERSHON [CH], et al
- US 4924951 A 19900515 - PAULSON ROGER W [US]
- US 4458949 A 19840710 - JURY ROBERT [US]
- JP 2668551 B2 19971027
- JP 4794541 B2 20111019
- JP S6322162 B2 19880511
- KR 101771790 B1 20170825
- FR 3034437 A1 20161007 - GB FORAGES DIRIGES [FR]
- KR 101614021 B1 20160429 - DESIL CONSTRUCTION CO [KR], et al
- KR 101454224 B1 20141023 - SAM SEO IND CO LTD [KR], et al
- CN 106498833 A 20170315 - CHANGZHOU JIEHE MACHINERY CO LTD
- CN 105544364 A 20160504 - ALDO XUZHOU MACHINERY TECH CO LTD
- WO 2013027754 A1 20130228 - TSUBAKIMORI SHINICHI [JP], et al
- EP 1182299 A2 20020227 - STEHR JUERGEN [DE]
- EP 0943735 A1 19990922 - STEHR JUERGEN [DE]
- EP 0796950 A1 19970924 - STELLMACH PAUL GERD [DE]
- GB 2489085 A 20120919 - DUNN BRIAN PETER [GB]
- DE 102010014711 A1 20111013 - STREET CUT GMBH [DE]
- EP 2295642 A2 20110316 - NEHER GERD [DE], et al
- EP 1362954 A1 20031119 - FREDY STURY AG [CH]
- US 6536987 B2 20030325 - CHANG MING-HUANG [TW]
- US 5470131 A 19951128 - NOLAN BRIAN J [US], et al
- CN 104594170 A 20150506 - BEIJING QSHT ENGINEERING TECHNOLOGY CO LTD
- EP 1048787 A2 20001102 - MIETZ GUDRUN [DE], et al
- DE 3319586 A1 19841206 - WACHENFELD TESCHNER FRITZ

Cited by
IT202100031778A1; IT202100031772A1; WO2023119067A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3719209 A2 20201007; EP 3719209 A3 20201021

DOCDB simple family (application)
EP 20167603 A 20200401