

Title (en)
MOBILE LARGE MANIPULATOR

Title (de)
FAHRBARER GROßMANIPULATOR

Title (fr)
MANIPULATEUR DE GRANDE TAILLE MOBILE

Publication
EP 3559373 A1 20191030 (DE)

Application
EP 17835678 A 20171221

Priority

- DE 102016125450 A 20161222
- EP 2017084067 W 20171221

Abstract (en)
[origin: WO2018115270A1] The invention relates to a mobile large manipulator (10), in particular an automotive concrete pump, having a chassis (12), a working boom (13) which can be folded out and/or extended and which is arranged on the chassis (12) so as to be rotatable about a vertical axis, supporting outriggers (14, 15, 16, 17) which are each arranged on the chassis (12) and can be extended horizontally from a driving position completely or partially into a supporting position, and vertically extendable supporting legs (18, 19, 20, 21) which are arranged on the outer ends of the supporting outriggers (14, 15, 16, 17) and which support the mobile large manipulator (10), with the formation of a respective supporting force of the supporting legs (18, 19, 20, 21), having a program-controlled supporting aid (μ C) which is configured for determining setpoint supporting forces (Fe1, Fe2, Fe3, Fe4) for the individual supporting legs (18, 19, 20, 21) while taking account of the supporting position of the supporting outriggers (14, 15, 16, 17) in which the chassis (12) of the large manipulator (10) is set up unstressed in the supported state. Moreover, the invention relates to a method for the program-controlled assistance of the supporting operation of a mobile large manipulator (10).

IPC 8 full level
E04G 21/04 (2006.01); **B66C 23/78** (2006.01)

CPC (source: EP US)
B60K 35/00 (2013.01 - US); **B60S 9/02** (2013.01 - US); **B66C 23/78** (2013.01 - EP US); **B66C 23/905** (2013.01 - EP); **E04G 21/0436** (2013.01 - EP); **E04G 21/0445** (2013.01 - EP); **G01M 1/122** (2013.01 - US); **B60K 35/28** (2024.01 - US); **B60K 2360/16** (2024.01 - US); **E04G 21/0436** (2013.01 - US); **E04G 21/0445** (2013.01 - US)

Citation (search report)
See references of WO 2018115270A1

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)
WO 2018115270 A1 20180628; DE 102016125450 A1 20180628; EP 3559373 A1 20191030; US 2019308592 A1 20191010

DOCDB simple family (application)
EP 2017084067 W 20171221; DE 102016125450 A 20161222; EP 17835678 A 20171221; US 201716469580 A 20171221