

Title (en)
MOBILE IMPLEMENT PROVIDED WITH STABILITY MONITORING SYSTEM

Title (de)
MOBILES ARBEITSGERÄT MIT STANDSICHERHEITSÜBERWACHUNG

Title (fr)
ENGIN DE TRAVAIL MOBILE À SURVEILLANCE DE LA STABILITÉ STATIQUE

Publication
EP 2288569 A1 20110302 (DE)

Application
EP 09749683 A 20090331

Priority
• EP 2009053765 W 20090331
• DE 102008024612 A 20080521
• DE 102008029705 A 20080624
• DE 102008058937 A 20081125

Abstract (en)
[origin: WO2009141193A1] The invention relates to a mobile implement, particularly an automatic concrete pump, comprising stability monitoring system. The implement comprises substantially an undercarriage (10), which can be supported on a subsurface (28) by means of two front and two rear outriggers (20, 24). A measuring element (30', 30'') each is disposed in the telescoping support legs (23, 25) of the outriggers (20, 24) for determining the supporting force. For this purpose, the support legs (23, 25) each have an upper telescoping element (70) connected to the associated outrigger (20, 24) at an upper connection point (38), and a support base (26) that can be displaced relative to the upper element and is supported on the subsurface (28) at the lower end thereof at a lower connection point (36). For this purpose, the measuring element (30', 30'') configured as a force sensor is disposed either directly at the upper connection point (38) between the outrigger (20, 24) and the upper telescoping element (70), or in the region of the lower connection point (36) between the lower telescoping element (42) and the support base (26). In the first case, the upper telescoping element (70) together with a pressure piece (72) in a sleeve-like receiving portion (74), which is disposed at the outrigger (20, 24) and directed downward and has a radially spring-centered tolerance, under the action of the supporting force axially abuts on a load transfer point (76) at the measuring element (30''), while in the latter case the support base (26) together with a pressure piece (50) in a receiving portion (46), which is disposed at the lower telescoping element (42) and has a radially spring-centered tolerance, under the action of the supporting force axially abuts on a load transfer point (48) of the measuring element (30').

IPC 8 full level
B66C 23/90 (2006.01)

CPC (source: EP US)
B66C 23/80 (2013.01 - EP US); **B66C 23/905** (2013.01 - EP US); **E02F 9/085** (2013.01 - EP US); **G01L 5/0004** (2013.01 - EP US); **G01L 5/0071** (2013.01 - EP US)

Citation (search report)
See references of WO 2009141193A1

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008058937 A1 20091126; BR PI0912875 A2 20160517; CN 102036903 A 20110427; EP 2288569 A1 20110302; KR 20110035998 A 20110406; US 2011062695 A1 20110317; WO 2009141193 A1 20091126

DOCDB simple family (application)
DE 102008058937 A 20081125; BR PI0912875 A 20090331; CN 200980118185 A 20090331; EP 09749683 A 20090331; EP 2009053765 W 20090331; KR 20107026536 A 20090331; US 73682809 A 20090331