

Title (en)

ANGLED BOOM COMPRISING VARIABLE CROSS-SECTION FOR MOBILE CONCRETE PUMPS

Title (de)

GEKRÖPFTER AUSLEGERARM MIT VERÄNDERLICHEM QUERSCHNITT FÜR MOBILE BETONPUMPEN

Title (fr)

BRAS EN PORTE-À-FAUX COUDÉ À SECTION TRANSVERSALE VARIABLE POUR POMPES À BÉTON MOBILES

Publication

EP 3622133 A1 20200318 (DE)

Application

EP 18725450 A 20180509

Priority

- DE 102017208031 A 20170512
- EP 2018062109 W 20180509

Abstract (en)

[origin: WO2018206703A1] The invention relates to a boom (5) for mobile concrete pumps (1) and to a mobile concrete pump (1). The boom (5) has a first and a second end (10, 11), and between the first and the second end (10, 11) of the boom (5) there is at least one angled section (12) in which main bending loads occurring during proper use are effective as torsional loads. The boom consists of composite fibre material. Away from the angled region (12), the height (h) of the boom (5) in cross section is greater than the width (b) of the boom (5) in cross section, and in the angled region (12), the width (b) of the boom (12) in cross section is greater than or equal to the height (h) of the boom (5) in cross section (5). The invention also relates to a concrete pump (1) having a distribution boom (2) which is arranged on an undercarriage (3) and comprises at least two booms (5), at least one of which is designed according to the invention.

IPC 8 full level

E04G 21/04 (2006.01)

CPC (source: EP KR US)

B66C 23/68 (2013.01 - EP KR); **E04G 21/0436** (2013.01 - US); **E04G 21/0445** (2013.01 - EP KR US); **E04G 21/0427** (2013.01 - US)

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)

DE 102017208031 A1 20181115; CN 110621833 A 20191227; CN 110621833 B 20220531; EP 3622133 A1 20200318; EP 3622133 B1 20220420; KR 102327429 B1 20211117; KR 20200006069 A 20200117; US 11952788 B2 20240409; US 2020199897 A1 20200625; WO 2018206703 A1 20181115

DOCDB simple family (application)

DE 102017208031 A 20170512; CN 201880031236 A 20180509; EP 18725450 A 20180509; EP 2018062109 W 20180509; KR 20197034720 A 20180509; US 201816612852 A 20180509