

Title (en)  
AUTOMATIC CONCRETE PUMP WITH ARTICULATED MAST

Title (de)  
AUTOBETONPUMPE MIT KNICKMAST

Title (fr)  
POMPE À BÉTON AUTOMOBILE AVEC MÂT ARTICULÉ

Publication  
**EP 2038493 A1 20090325 (DE)**

Application  
**EP 07729009 A 20070511**

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Abstract (en)  
[origin: US2009283163A1] The invention relates to an automatic concrete pump with an articulated mast (14) serving as a support for a supply line and with two forward and two backward support extensions (16', 16", 18', 18") which can be supported on a base platform (32) and which can be lowered from a driving position into a support position, each with a telescopic support leg (30). According to the invention, each support extension comprises one inner support position near to the chassis, and at least one outer support position away from the chassis, which can be freely selected by forming defined support configurations (V, SL, SR, YL, YR, N) for the four support extensions. Further, a control device for the movement of the mast arm is provided which comprises a software program corresponding to the selected support configuration, which program limits the pivot angle of the first bending arm (1) about its bending axis (A) and an associated range of angular rotation of the rotatable head (24) about the vertical axis (22), according to the specification of the selected support configuration.

IPC 8 full level  
**E04G 21/04** (2006.01)

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**B66C 23/78** (2013.01 - EP US); **E04G 21/04** (2013.01 - EP KR US); **E04G 21/0436** (2013.01 - EP US); **Y10T 137/8807** (2015.04 - EP US)

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See references of WO 2008003548A1

Cited by  
DE102018204079A1; DE102014009165B4; WO2015197708A1; DE102012215546A1; WO2014033025A1; DE102022120770A1;  
WO2024038096A1; WO2019175400A1; DE102012215534A1; DE102014009165A1; US9371214B2; US9856662B2

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Designated extension state (EPC)  
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