

Title (en)
DISTRIBUTION BOOM FOR MOBILE CONCRETE PUMPS COMPRISING JOINTS FOR ADJACENT ARMS, AND MOBILE CONCRETE PUMP

Title (de)
VERTEILERMAST FÜR MOBILE BETONPUMPEN MIT GELENKEN FÜR NEBENEINANDERLIEGENDE ARME UND MOBILE BETONPUMPE

Title (fr)
MÂT DISTRIBUTEUR DE POMPES À BÉTON MOBILES AVEC JOINTS POUR BRAS ADJACENTS ET POMPE À BÉTON MOBILE

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Application
EP 18725449 A 20180509

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• EP 2018062108 W 20180509

Abstract (en)
[origin: WO2018206702A1] The invention relates to a distribution boom (2) for a concrete pump (1) and to a mobile concrete pump (1) comprising a corresponding distribution boom (2). The distribution boom (2) for a concrete pump (1) comprises at least a first and a second boom arm (4', 4''), wherein the first and the second boom arm (4', 4'') are connected to each other via a joint (5) and can be pivoted relative to each other about a pivot axis (92) via the joint (5), and wherein a concrete delivery line (9', 9'') is provided along the boom arms (4). The joint (5) connects the first and the second boom arm (4', 4'') so that they are offset to each other in the axial direction of the pivot axis (92) such that the load-bearing structures of each of the two boom arms (4', 4'') intersect a separating plane (90) running perpendicularly to the pivot axis (92) between the first and the second boom arm (4', 4'') only in the joint (5), wherein a hydraulic cylinder (21, 21') is arranged on one boom arm (4', 4''), said hydraulic cylinder being connected via one or more coupling rods (22) to the other boom arm (4'', 4') such that the hydraulic cylinder (21, 21') can effect a pivoting movement of the two boom arms (4', 4'') relative to each other about the pivot axis (92) of the joint (5). The mobile concrete pump (1) comprises a corresponding distribution boom (2).

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Citation (examination)
EP 0838563 A1 19980429 - PUTZMEISTER AG [DE]

Citation (opposition)
Opponent : Schwing GmbH
• EP 3622132 A1 20200318 - PUTZMEISTER ENGINEERING GMBH [DE]
• DE 202004003077 U1 20040519 - PUTZMEISTER AG [DE]
• US 6808025 B2 20041026 - BISSEN DAVID R [US], et al
• US 7055613 B1 20060606 - BISSEN DAVID R [US], et al
• EP 0037571 B1 19860611
• DE 102013218383 A1 20150319 - PUTZMEISTER ENGINEERING GMBH [DE]
• ANONYMOUS1 3: "Werkfeuerwehrfahrzeuge GMB 34", TECHNIK, 1 January 1993 (1993-01-01), pages 1 - 3, XP055907194, Retrieved from the Internet <URL:www.truckenmueller.de> [retrieved on 20220330]
• ANONYMOUS: "Putzmeister AutoBetonpumpe M58-8 kühlt in Fukushima", TECHNICAL REPORT, 24 March 2011 (2011-03-24), pages 1 - 6, XP055907201

Cited by
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