

Title (en)
Large-scale manipulator comprising a vibration damper

Title (de)
Großmanipulator mit Schwingungsdämpfer

Title (fr)
Grand manipulateur pourvu d'un amortisseur de vibrations

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Application
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Abstract (en)
[origin: WO0225036A1] The invention relates to a large-scale manipulator, especially of concrete pumps. Said large-scale manipulator has a bending mast (22) which consists of at least three mast arms (23 to 27) and which is preferably configured as a concrete spreader mast. The arms of said mast are each pivotable to a limited extent about horizontal, bending axes (28 to 32) which are parallel to each other, by means of a drive aggregate (34 to 38), respectively. A control device (50, 62, 52) for moving the mast with the help of actuating mechanisms that are allocated to the individual drive aggregates, and means for damping mechanical vibrations in the bending mast are also provided.

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Citation (search report)
• [DA] DE 19503895 A1 19960808 - PUTZMEISTER MASCHF [DE]
• [A] DE 19520166 A1 19951123 - SCHAUER KONRAD [DE]
• [A] JP H05230999 A 19930907 - ISHIKAWAJIMA CONSTR MACH, et al
• [A] EP 0715673 A1 19960612 - PUTZMEISTER MASCHF [DE]
• [A] DE 2947303 A1 19800703 - EKMAN JAN

Cited by
WO2014165889A1; US10106994B2; WO2014165888A1; US9719530B2; EP2984254A1

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