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(30) Priority Data: PN 6811 24 November 1995 (24.11.95)	(54) Title: CRANE WITH IMPROVED REEVING ARRANGEMENT	
(71) Applicants (for all designated States except US): THE UNIVERSITY OF SYDNEY [AU/AU]; Parramatta Road, Sydney, NSW 2006 (AU). PATRICK STEVEDORES HOLDINGS PTY. LIMITED [AU/AU]; Level 3, 309 Kent Street, Sydney, NSW 2000 (AU).	(57) Abstract The invention relates to a crane which is arranged through its reeving system to manoeuvre a load. The crane comprises an upper support structure, a lower support structure arranged to carry a load and six reeving cables suspending the lower support structure from the upper support structure. There are incorporated means for changing the effective length between the upper and lower support structure of selective ones of the reeving cables. The reeving cables are arranged such that they are connected geometrically to the upper and lower support structures at apexes of an upper and a lower trapezium, respectively, the reeving cables being arranged such that the cables of a first pair of the reeving cables converge in a downward direction, the cables of a second pair of the reeving cables converge in an upward direction and the cables of the third pair of reeving cables extend between opposite ends of the first and second pair reeving cables at the upper and lower support structures. A crane with such reeving arrangement enables adjustment of the position and attitude of the lower support structure with respect to the upper support structure by manipulating the length in individual reeving cables. The reeving cable arrangement results in "stiffness" being present in the connection between the upper and lower support structures when all cables are in tension.	
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(81) Designated States: JP, KR, US.	(57) Abstract A method is disclosed of controlling the drive of computer-controlled conveyor devices, in particular crane facilities with lifting winches and a mast on a moving frame on which are mounted shelf operator devices provided with load-carrying means and a lifting platform and comprising a current regulator circuit (7), a drive regulator circuit which includes a speed regulator circuit (6) and a position regulator circuit (5). The proposed method extends the possibilities of intervention where the instantaneous dynamic behaviour of the conveyor device (2) is calculated from an available data tree of a state and disruption monitor-regulator module (8) using available measurement and setting values containing information on the dynamics of the device and based on coefficient-characteristic fields. The latter incorporate structural details and dynamic characteristics of the conveyor device and proceed from a base setting of the variables of the shelf operator device and an iterative approximation algorithm (10) of a regulator module (9) which performs an automatic self-teaching coefficient identification. On the basis of the mathematical equations of the dynamic behaviour, vibrations in the conveyor are actively damped.	
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