

Title (en)

Computer controlled system for lifting loads with at least two hoists

Title (de)

Rechnergesteuertes Hubzugsystem mit wenigstens zwei Hubzügen

Title (fr)

Commande par ordinateur pour système de levage comportant au moins deux palans

Publication

EP 0504867 B1 19961227 (DE)

Application

EP 92104771 A 19920319

Priority

DE 4108969 A 19910319

Abstract (en)

[origin: EP0504867A1] In a computer-controlled system for lifting loads, particularly for stages and multi-purpose halls comprising - at least two independently controllable hoists (4a, 4b), - a control computer (1) for individually monitoring the system and controlling the individual hoists, which carries out an actual/nominal value comparison, - an operating terminal (5), - an operating computer (6) for administering the operating terminal (5) and transmitting travel commands to the control computer (1), - a network (2) for connecting control computer (1), operating computer (6), operating terminal (5) and the individual hoists (4a, 4b), it is provided according to the invention that - the network (2) is a ring network and that - the control computer (1) has a multi-channel structure with at least two channels (1a, 1b) and independently carries out the actual/nominal value comparison in each channel (1a, 1b) as well as alternately a monitoring of each channel (1a, 1b) by the other one (1b, 1a) and, when safety-relevant deviations are detected, stops the system for lifting loads via switch-off lines, which are designed to have at least two channels, the actual/nominal value comparison including at least a detection of the position and of the state of movement of the individual systems for lifting loads (4a, 4b, ...), a weight sensing, a monitoring for slack chains and a monitoring for the synchronous running of hoists (4a, 4b, ...) connected in a group. <IMAGE>

IPC 1-7

A63J 1/02

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CPC (source: EP)

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Cited by

AT509781B1; EP3130382A1; US7515389B2; WO2007010290A3; WO2004077177A1; WO2011133993A1; US11111117B2; US11319198B2; US7775506B2; US8033528B2; JP2006519149A; US9061869B2; US10227221B2; US10968085B2; US11511978B2; US8317159B2; US8613428B2; US9309094B2; US9493328B2; US10328358B2; US10799809B2

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