

Title (en)  
Process for stilling the motion of a link chain of a chain hoist, in particular for preventing the emergence of a resonant vibration of the link chain, and chain hoist therefor

Title (de)  
Verfahren zur Laufberuhigung einer Gliederkette eines Kettenzuges, insbesondere zur Verhinderung der Ausbildung einer Resonanzschwingung der Gliederkette, und einen Kettenzug hierfür

Title (fr)  
Procédé de tranquillisation de la marche d'une chaîne à maillons d'un palan à chaîne, particulièrement pour éviter l'apparition d'une vibration de résonance de la chaîne à maillons, et palan à chaîne associé

Publication  
**EP 1464611 A3 20041208 (DE)**

Application  
**EP 04006657 A 20040319**

Priority  
DE 10314724 A 20030331

Abstract (en)  
[origin: EP1464611A2] The method for running moderation of a link chain of a haulage chain, in which the link chain is guided over an electric motor driven polygonal chain wheel with unequal pitch, has a periodic and/or random and damping control value superimposed on the speed of the chain wheel (4), and the control value effects a change of the chain speed in a way that a forming of a resonance oscillation is prevented. The electric motor (2) is controlled via an electronic damper (8). An independent claim is included for a haulage chain for carrying out the proposed method of running moderation.

IPC 1-7  
**B66D 1/48**

IPC 8 full level  
**B66D 3/20** (2006.01); **B66D 1/48** (2006.01); **B66D 3/26** (2006.01); **H02P 29/00** (2006.01)

CPC (source: EP US)  
**B66D 1/485** (2013.01 - EP US); **B66D 3/18** (2013.01 - EP); **B66D 3/26** (2013.01 - EP)

Citation (search report)

- [A] US 5377296 A 19941227 - GREENWAY MALCOLM E [ZA], et al
- [A] EP 0798488 A2 19971001 - REXROTH MANNESMANN GMBH [DE]
- [A] DE 4038981 A1 19920611 - MAN GHH LOGISTICS [DE]
- [A] WO 9929032 A1 19990610 - KONE CORP [FI], et al
- [A] EP 0903313 A2 19990324 - TOSHIBA KK [JP]
- [A] US 3918552 A 19751111 - KAMEYAMA TADAO, et al
- [A] GB 2266976 A 19931117 - GOLD STAR IND SYSTEM [KR]
- [A] EP 0734993 A2 19961002 - MAN GHH LOGISTICS [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 157 (M - 0955) 27 March 1990 (1990-03-27)

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DOCDB simple family (application)  
**EP 04006657 A 20040319**; AT 04006657 T 20040319; DE 10314724 A 20030331; DE 502004001440 T 20040319; ES 04006657 T 20040319; HK 05102875 A 20050406; JP 2004091248 A 20040326; US 81490204 A 20040331