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(71) Applicant: **Kone Corporation**
00330 Helsinki (FI)

(72) Inventor: **Kovanen, Markku**
01730 Vantaa (FI)

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(54) **Method and apparatus for changing the rope of a traction sheave elevator**

(57) The invention relates to a method for changing the rope of a traction sheave elevator. In the method, the new rope (1) is fastened as an extension to the old rope (4) threaded over the diverting pulleys (2) and traction sheave (3), and the new rope is pulled by means of the old rope into the place of the old rope. The apparatus comprises relief devices (10) to be mounted on the rim of the traction sheave (3) to keep the rope (1, 4) clear of contact with the rope groove (9) of the traction sheave (3), a joining element (11) for joining the old rope (4) and the new rope (1) together end to end, and a rope pulling device (12) for pulling the ropes (1, 4).

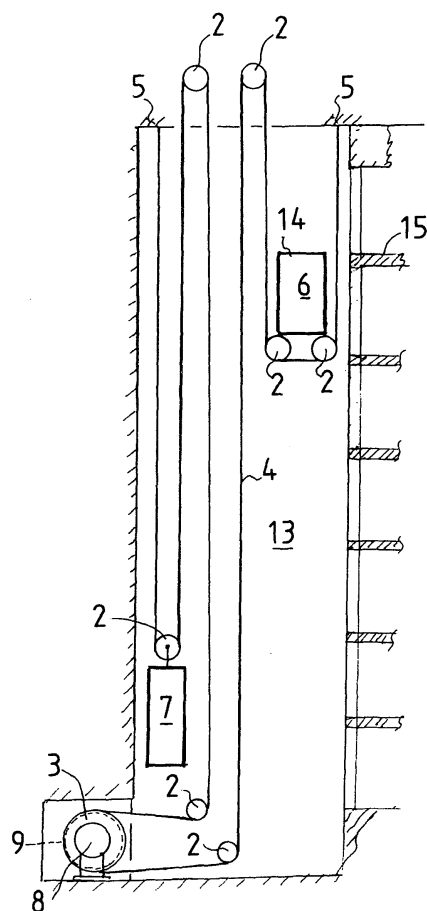


Fig 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 05 39 6015

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X A	JP 2003 089486 A (MITSUBISHI ELEC BUILDING TECHN) 25 March 2003 (2003-03-25) * abstract; figures 1-7 *	1-10,14,16,18 12,13,15,19	INV. B66B19/02
X	----- JP 2001 287877 A (HITACHI BUILDING SYS CO LTD) 16 October 2001 (2001-10-16) * abstract; figures 1,3 *	1,11,14,16-18	
A	----- JP 03 120185 A (HITACHI ELEVATOR ENG & SERVICE) 22 May 1991 (1991-05-22) * abstract; figure 2 *	1,12,13,19	
X	----- JP 2004 091208 A (HITACHI BUILDING SYS CO LTD) 25 March 2004 (2004-03-25) * abstract; figures 1,5,6 *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			B66B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 22 April 2008	Examiner Janssens, Gerd
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 05 39 6015

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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22-04-2008

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 2003089486	A	25-03-2003	NONE		
JP 2001287877	A	16-10-2001	JP	3841616 B2	01-11-2006
JP 3120185	A	22-05-1991	JP	2603729 B2	23-04-1997
JP 2004091208	A	25-03-2004	NONE		