

Title (en)  
ELEVATOR APPARATUS AND SPEED ADJUSTING ROPE

Title (de)  
AUFZUGSVORRICHTUNG UND GESCHWINDIGKEITSANPASSUNGSKABEL

Title (fr)  
ASCENSEUR ET CORDE DE REGLAGE DE LA VITESSE

Publication  
**EP 1577248 A4 20110601 (EN)**

Application  
**EP 02808325 A 20021225**

Priority  
JP 0213515 W 20021225

Abstract (en)  
[origin: WO2004058620A1] An elevator apparatus (100) includes a guide rail (12) standing in a lifting/lowering path (2) for lifting/lowering a cage (6) in the lifting/lowering path (2), a speed adjusting device (22), a speed adjusting rope (26), and an emergency stop device (28). The speed adjusting device (26) stops the lifting/lowering of the cage (6) according to the moving speed of the cage (6). Moreover, the emergency stop device (28) is provided in the cage (6) and connected to one position of the speed adjusting rope (26) so as to stop lifting/lowering of the cage (6) according to the operation of the speed adjusting rope (26). The speed adjusting rope (26) is formed as an endless shape and rolled on the speed adjusting device (22). Furthermore, by changing the cross-sectional view of the speed adjusting rope (26), the operation speed of the speed adjusting device (22) is changed according to the position of the cage (6).

IPC 1-7  
**B66B 5/04**

IPC 8 full level  
**B66B 5/04** (2006.01)

CPC (source: EP KR)  
**B66B 5/04** (2013.01 - KR); **B66B 5/044** (2013.01 - EP)

Citation (search report)

- [A] JP H0867447 A 19960312 - MITSUBISHI ELECTRIC BILL TECH
- [A] EP 0628510 A2 19941214 - KONE OY [FI]
- See references of WO 2004058620A1

Cited by  
US9033111B2

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 1577248 A1 20050921; EP 1577248 A4 20110601; EP 1577248 B1 20130306**; CN 100352753 C 20071205; CN 1620400 A 20050525; JP WO2004058620 A1 20060427; KR 100627540 B1 20060921; KR 20050002832 A 20050110; WO 2004058620 A1 20040715

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**EP 02808325 A 20021225**; CN 02828296 A 20021225; JP 0213515 W 20021225; JP 2004562850 A 20021225; KR 20047013159 A 20021225