

Title (en)
ELEVATOR SYSTEM HOISTWAY DOOR OPERATING MECHANISM

Publication
EP 0410774 A3 19920603 (EN)

Application
EP 90308242 A 19900727

Priority
ES 8902665 A 19890727

Abstract (en)
[origin: EP0410774A2] An elevator system is provided having a car in a hoistway. A pair of linked profiles (3) are pivotally connected to the car door (4). When the car stops at a floor, the profiles lie between rollers (6, 7) which are provided on the hoistway door (5) at each floor and which cooperate with the hoistway door lock shaft 1a. The profiles (3) are biased by a spring (10) (see Fig. 2) into an expanded condition in which they are level with one another and push against the hoistway door rollers (6, 7) to tilt the latch (1a) open. However when the car door (4) is closed, a cam roller (8) attached to one of the profiles (3) moves along a cam track (9) and forces the profiles (3) together to lock the lock 1. When the car door (4) opens, the cam roller (8) moves out of the cam track (9), so that the profiles (3) expand, and push the hoistway rollers (6, 7) which open the lock 1. The profiles (3) remain in engagement with said rollers (6, 7) so that the movement of the car door (4) is transmitted to the hoistway door (5) during opening and closing of the doors (4, 5).

IPC 1-7
B66B 13/16

IPC 8 full level
B66B 13/20 (2006.01); **B66B 13/12** (2006.01); **B66B 13/16** (2006.01)

CPC (source: EP)
B66B 13/12 (2013.01); **B66B 13/16** (2013.01)

Citation (search report)
• [X] EP 0164581 A1 19851218 - INVENTIO AG [CH]
• [A] US 3783977 A 19740108 - VOSER A
• [A] GB 1193933 A 19700603 - EXPRESS LIFT CO LTD [GB]
• [A] FR 2625991 A1 19890721 - SORETEX [FR]

Cited by
US5575357A; EP0482264A1; EP1176114A1; GB2356623A; GB2356623B; EP2426076A4

Designated contracting state (EPC)
CH DE ES FR GB IT LI

DOCDB simple family (publication)
EP 0410774 A2 19910130; EP 0410774 A3 19920603; EP 0410774 B1 19950927; BR 9003644 A 19910827; DE 69022663 D1 19951102; DE 69022663 T2 19960515; ES 2016722 A6 19901116; ES 2080122 T3 19960201; HK 19796 A 19960209; JP H0361284 A 19910318

DOCDB simple family (application)
EP 90308242 A 19900727; BR 9003644 A 19900726; DE 69022663 T 19900727; ES 8902665 A 19890727; ES 90308242 T 19900727; HK 19796 A 19960201; JP 20105290 A 19900727