

## Title (en)

Elevator comprising a belt-like transmission means, particularly comprising a V-ribbed belt, as supporting and/or traction means

## Title (de)

Aufzug mit riemenartigem Übertragungsmittel, insbesondere mit Keilrippen-Riemen, als Tragmittel und/oder Treibmittel

## Title (fr)

Ascenseur comprenant un moyen de transmission à bande, en particulier comprenant une bande rainurée en V, servant de moyen de support et/ou de traction

## Publication

**EP 1561720 B1 20080102 (DE)**

## Application

**EP 05103258 A 20021120**

## Priority

- EP 05103258 A 20021120
- EP 02774244 A 20021120
- EP 01811132 A 20011123

## Abstract (en)

[origin: WO03043926A1] The invention relates to a lift system without a machinery room, comprising a driving motor (2), a driving disk (16), a protruding lift cage (3) and a counterweight (8). Said driving motor (2) drives, by means of the driving disk (16), a flat belt-type carrier means (12) which is embodied as a V-ribbed belt, and which carries the lift cage (3) and the counterweight (8) and moves along vertical guiding mechanisms (5, 10). Said V-ribbed belt (12) comprises, at least on its bearing surface facing the driving disk (16), a plurality of ribs and grooves extending parallel in the longitudinal direction of the belt, said ribs and grooves improving the traction capacity of the carrier means.

## IPC 8 full level

**B66B 11/00** (2006.01); **B66B 7/06** (2006.01); **B66B 11/04** (2006.01); **B66B 11/08** (2006.01); **D07B 1/22** (2006.01)

## CPC (source: EP US)

**B66B 7/062** (2013.01 - EP US); **B66B 11/0045** (2013.01 - EP US); **B66B 11/008** (2013.01 - EP US); **B66B 11/009** (2013.01 - EP US)

## Cited by

DE10240988B4; EP1760028A1; EP1777189A1; US8407876B2; US7882935B2; WO2010052109A1

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

## DOCDB simple family (publication)

**WO 03043926 A1 20030530**; AT E294763 T1 20050515; AT E307082 T1 20051115; AT E316934 T1 20060215; AT E316935 T1 20060215; AT E382577 T1 20080115; AT E382578 T1 20080115; AT E393754 T1 20080515; AT E505425 T1 20110415; AT E512925 T1 20110715; AU 2002339284 A1 20030610; AU 2002339284 B2 20080320; AU 2002339285 A1 20030610; AU 2002339285 B2 20070712; AU 2002339286 A1 20030610; AU 2002339286 B2 20070614; AU 2002340704 A1 20030610; AU 2002340704 B2 20081009; AU 2008200721 A1 20080306; AU 2008200721 B2 20100211; AU 2010201902 A1 20100603; BR 0214353 A 20041026; BR 0214356 A 20041026; BR 0214356 B1 20130122; BR 0214382 A 20041103; BR 0214382 B1 20110111; BR 0214385 A 20041103; BR 0214385 B1 20110405; BR 0216031 B1 20120612; BR PI0214353 B1 20170418; CA 2464929 A1 20030530; CA 2464929 C 20101109; CA 2464990 A1 20030530; CA 2464990 C 20101109; CA 2465031 A1 20030530; CA 2465031 C 20110510; CA 2465038 A1 20030530; CA 2465038 C 20101102; CN 101062742 A 20071031; CN 1308216 C 20070404; CN 1308217 C 20070404; CN 1323929 C 20070704; CN 1323930 C 20070704; CN 1589229 A 20050302; CN 1589230 A 20050302; CN 1589231 A 20050302; CN 1592710 A 20050309; CY 1105599 T1 20100728; DE 50203035 D1 20050609; DE 50204630 D1 20051124; DE 50205760 D1 20060413; DE 50205761 D1 20060413; DE 50211490 D1 20080214; DE 50211492 D1 20080214; DE 50212196 D1 20080612; DE 50215006 D1 20110526; DK 1446348 T3 20060220; DK 1446350 T3 20060606; DK 1446351 T3 20050829; DK 1446352 T3 20060606; DK 1561720 T3 20080331; DK 1604939 T3 20080428; EP 1446348 A1 20040818; EP 1446348 B1 20051019; EP 1446350 A1 20040818; EP 1446350 B1 20060201; EP 1446351 A1 20040818; EP 1446351 B1 20050504; EP 1446352 A1 20040818; EP 1446352 B1 20060201; EP 1547960 A2 20050629; EP 1547960 A3 20080709; EP 1547960 B1 20110413; EP 1561720 A2 20050810; EP 1561720 A3 20051026; EP 1561720 B1 20080102; EP 1580156 A1 20050928; EP 1580156 B1 20080430; EP 1604939 A1 20051214; EP 1604939 B1 20080102; EP 1834919 A2 20070919; EP 1834919 A3 20080521; EP 1834919 B1 20110615; ES 2242069 T3 20051101; ES 2251620 T3 20060501; ES 2257578 T3 20060801; ES 2257579 T3 20060801; ES 2298937 T3 20080516; ES 2298943 T3 20080516; ES 2306013 T3 20081101; ES 2364969 T3 20110919; ES 2368262 T3 20111115; HK 1068592 A1 20050429; HK 1068593 A1 20050429; HK 1068594 A1 20050429; HK 1068596 A1 20050429; HK 1079179 A1 20060331; HK 1081506 A1 20060519; HK 1083621 A1 20060707; HK 1085987 A1 20060908; HK 1116150 A1 20081219; JP 2005509578 A 20050414; JP 2005509579 A 20050414; JP 2005509580 A 20050414; JP 2005523856 A 20050811; JP 2007246286 A 20070927; JP 4468697 B2 20100526; MX PA04004787 A 20040811; MX PA04004847 A 20040730; MX PA04004850 A 20040730; NO 20042619 L 20040622; NO 20042631 L 20040623; NO 20042632 L 20040623; NO 20074248 L 20040623; NO 329183 B1 20100906; NO 330310 B1 20110328; NO 330312 B1 20110328; NO 332403 B1 20120910; NZ 532893 A 20050729; PT 1446350 E 20060531; PT 1446351 E 20050930; PT 1561720 E 20080327; PT 1604939 E 20080410; US 2004216958 A1 20041104; US 2004216959 A1 20041104; US 2004262087 A1 20041230; US 2005006179 A1 20050113; US 2007278047 A1 20071206; US 7367430 B2 20080506; US 7367431 B2 20080506; US 7624846 B2 20091201; US 8157058 B2 20120417; US 8210320 B2 20120703; WO 03043922 A1 20030530; WO 03043924 A1 20030530; WO 03043925 A1 20030530; ZA 200403134 B 20050629; ZA 200403135 B 20050629; ZA 200403136 B 20050629

## DOCDB simple family (application)

**CH 0200634 W 20021122**; AT 02774244 T 20021120; AT 02776633 T 20021122; AT 02776634 T 20021122; AT 02776635 T 20021122; AT 05006057 T 20021120; AT 05103258 T 20021120; AT 05104453 T 20021120; AT 05106721 T 20021120; AT 07108982 T 20021120; AU 2002339284 A 20021122; AU 2002339285 A 20021122; AU 2002339286 A 20021122; AU 2002340704 A 20021120; AU 2008200721 A 20080214; AU 2010201902 A 20100512; BR 0214353 A 20021122; BR 0214356 A 20021122; BR 0214382 A 20021122; BR 0214385 A 20021120; BR 0216031 A 20021120; CA 2464929 A 20021122; CA 2464990 A 20021122; CA 2465031 A 20021120; CA 2465038 A 20021122; CH 0200624 W 20021120; CH 0200632 W 20021122; CH 0200633 W 20021122; CN 02822940 A 20021122; CN 02822941 A 20021122; CN 02823041 A 20021122; CN 02823303 A 20021120; CN 200710108239 A 20021120; CY 061100471 T 20060403; DE 50203035 T 20021122; DE 50204630 T 20021120; DE 50205760 T 20021122; DE 50205761 T 20021122; DE 50211490 T 20021120; DE 50211492 T 20021120; DE 50212196 T 20021120; DE 50215006 T 20021120; DK 02774244 T 20021120; DK 02776633 T 20021122; DK 02776634 T 20021122; DK 02776635 T 20021122; DK 05103258 T 20021120; DK 05106721 T 20021120; EP 02774244 A 20021120; EP 02776633 A 20021122; EP 02776634 A 20021122; EP 02776635 A 20021122; EP 05006057 A 20021120; EP 05103258 A 20021120; EP 05104453 A 20021120; EP 05106721 A 20021120; EP 07108982 A 20021120; ES 02774244 T 20021120; ES 02776633 T 20021122;

ES 02776634 T 20021122; ES 02776635 T 20021122; ES 05006057 T 20021120; ES 05103258 T 20021120; ES 05104453 T 20021120;  
ES 05106721 T 20021120; ES 07108982 T 20021120; HK 05101011 A 20050207; HK 05101012 A 20050207; HK 05101013 A 20050207;  
HK 05101015 A 20050207; HK 05111106 A 20051206; HK 06101560 A 20060206; HK 06103699 A 20060324; HK 06105951 A 20060524;  
HK 08102989 A 20080314; JP 2003545569 A 20021120; JP 2003545571 A 20021122; JP 2003545572 A 20021122; JP 2003545573 A 20021122;  
JP 2007136553 A 20070523; MX PA04004787 A 20021120; MX PA04004847 A 20021122; MX PA04004850 A 20021122;  
NO 20042619 A 20040622; NO 20042631 A 20040623; NO 20042632 A 20040623; NO 20074248 A 20070820; NZ 53289302 A 20021120;  
PT 02776633 T 20021122; PT 02776634 T 20021122; PT 05103258 T 20021120; PT 05106721 T 20021120; US 75521607 A 20070530;  
US 84997004 A 20040520; US 84998104 A 20040520; US 84998204 A 20040520; US 85054404 A 20040520; ZA 200403134 A 20040423;  
ZA 200403135 A 20040423; ZA 200403136 A 20040423