Title (en)
  Elevator system

Title (de)
  Aufzugssystem

Title (fr)
  Système d'ascenseur

Publication
  EP 1550629 B1 20061018 (DE)

Application
  EP 04106162 A 20041129

Priority
  • EP 04106162 A 20041129
  • EP 03405853 A 20031201

Abstract (en)
  [origin: US2005115799A1] An elevator system includes a roller arrangement and a belt for supporting an elevator car. The roller arrangement has
  two rollers with approximately parallel axes of rotation and structured circumferential surfaces engaging a complementary structured surface of the
  belt. The structured surfaces have alternating ribs and grooves. The belt is twisted about its longitudinal axis between the two rollers to keep the
  structured surfaces in contact and forms an under-looping for support of the elevator car.

IPC 8 full level
  B66B 7/06 (2006.01); **B65G 47/24** (2006.01); **B66B 1/34** (2006.01); **B66B 7/00** (2006.01); **B66B 7/02** (2006.01); **B66B 9/02** (2006.01);
  B66B 11/00 (2006.01); **B66B 11/04** (2006.01); **B66B 11/08** (2006.01)

IPC 8 main group level
  B66B (2006.01); **E21B** (2006.01)

CPC (source: EP KR US)
  B66B 7/02 (2013.01 - KR); **B66B 7/06** (2013.01 - KR); **B66B 7/062** (2013.01 - EP US); Y10T 74/18832 (2015.01 - EP US);
  Y10T 74/20323 (2015.01 - EP US)

Cited by
  EP1886957A1; DE202008001786U1; CN110512176A; EP1911713A1; US7857106B2; WO2011128223A2; US10011461B2

Designated contracting state (EPC)
  AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
  US 2005115799 A1 20050602; **US 7040456 B2 20060509**; AR 046737 A1 20051221; AT E342863 T1 20061115; AU 2004233527 A1 20050616;
  AU 2004233527 B2 20100121; BR PI0405279 A 20060627; BR PI0405279 B1 20120724; CA 2488830 A1 20050601; CA 2488830 C 20120327;
  CN 1323927 C 20070704; CN 1623884 A 20050608; DE 502004001791 D1 20061130; DK 1550629 T3 20070219; EC SP045444 A 20050310;
  EP 1550629 A1 20050706; EP 1550629 B1 20061018; ES 2275183 T3 20070601; HK 1079751 A1 20060413; JP 2005162488 A 20050623;
  JP 5129428 B2 20130130; KR 20050053025 A 20050607; KR 20120109450 A 20121008; MX PA04011942 A 20050705;
  NO 20045239 D0 20041130; NO 20045239 L 20050602; NO 329620 B1 20101122; NZ 536769 A 20050429; PL 1550629 T3 20070330;
  PT 1550629 E 20070131; RU 2004135021 A 20060510; RU 2349533 C2 20090320; SI 1550629 T1 20070430; TW 200526503 A 20050816;
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DOCDB simple family (application)
  US 99958404 A 20041130; AR P040104456 A 20041130; AT 04106162 T 20041129; AU 2004233527 A 20041129; BR PI0405279 A 20041129;
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  NZ 53676904 A 20041124; PL 04106162 T 20041129; PT 04106162 T 20041129; RU 2004135021 A 20041130; SI 200430151 T 20041129;
  TW 93136877 A 20041130; ZA 200409347 A 20041119