

Title (en)

AERIAL CONVEYOR WITH PENDULAR ARMS DRIVEN ALONG A CLOSED LOOP CIRCUIT

Title (de)

HÄNGEFÖRDERER MIT PENDELARMEN IM GESCHLOSSENEN KREISPROZESS

Title (fr)

CONVOYEUR AERIEN A BRAS PENDULAIRES ENTRAINES SUIVANT UN CIRCUIT EN BOUCLE FERMEE

Publication

EP 1560744 A1 20050810 (FR)

Application

EP 03715061 A 20030128

Priority

- FR 0300269 W 20030128
- US 42065702 P 20021023

Abstract (en)

[origin: WO2004041628A1] In a preferred embodiment, the objects to be transported, in particular motor car body shells on sleds (3, 5) are carried suspended each by four independent pendular arms (4) with two symmetrical conveyors which travel through the installation under the control of synchronized drive means to pick up said objects in a loading station and transport them individually to an unloading station. In each conveyor, said pendular arms are secured to fixed positions distributed along a cable (60) which is driven by said drive means while being maintained tensioned on guide wheels (63) defining a predetermined conveying circuit. The loads suspended via the pendular arms are solely carried by said cable between said guide wheels, said cable thus constituting both tractive and carrier means for said objects. In practice, each conveyor comprises two parallel cables and the pendulums are secured hanging therebetween.

IPC 1-7

B62D 65/00; **B65G 17/18**; **B65G 49/04**

IPC 8 full level

B62D 1/00 (2006.01); **B62D 65/18** (2006.01); **B65G 17/18** (2006.01); **B65G 49/04** (2006.01)

CPC (source: EP US)

B62D 65/18 (2013.01 - EP US); **B65G 17/18** (2013.01 - EP US); **B65G 49/0454** (2013.01 - EP US); **C25D 13/22** (2013.01 - EP US)

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 PT SE SI SK TR

DOCDB simple family (publication)

WO 2004041628 A1 20040521; AT E337218 T1 20060915; AU 2003219258 A1 20040607; AU 2003219259 A1 20040607; BR 0315556 A 20050823; CA 2503615 A1 20040521; CN 1688475 A 20051026; CO 5690625 A2 20061031; DE 60307879 D1 20061005; DE 60307879 T2 20070412; EP 1560744 A1 20050810; EP 1560745 A1 20050810; EP 1560745 B1 20060823; ES 2271554 T3 20070416; MX PA05004433 A 20051123; RU 2005116221 A 20051120; US 2006180470 A1 20060817; WO 2004041627 A1 20040521; ZA 200504062 B 20060222

DOCDB simple family (application)

FR 0300270 W 20030128; AT 03715062 T 20030128; AU 2003219258 A 20030128; AU 2003219259 A 20030128; BR 0315556 A 20030128; CA 2503615 A 20030128; CN 03824500 A 20030128; CO 05049224 A 20050520; DE 60307879 T 20030128; EP 03715061 A 20030128; EP 03715062 A 20030128; ES 03715062 T 20030128; FR 0300269 W 20030128; MX PA05004433 A 20030128; RU 2005116221 A 20030128; US 53241105 A 20050916; ZA 200504062 A 20050519