

Title (en)  
Container transport vehicle

Title (de)  
Fahrzeug zum Transportieren von Containern

Title (fr)  
Véhicule pour le transport de conteneurs

Publication  
**EP 1731473 A3 20070509 (EN)**

Application  
**EP 06113824 A 20060511**

Priority  
CN 200510026507 A 20050607

Abstract (en)  
[origin: EP1731473A2] The present invention provides a container transport vehicle for transporting across containers, including: a large carrier frame (1); a diesel set (2) being used as a power supply; a wheel support frame (3) incorporating with a large carrier reductor; a large carrier drive machinery (4); and wheels (6), hanging tools (9) and swing-resisting and translation machineries for the hanging tool, wherein, the vehicle further includes, a lifting machinery (5) and a steering machinery; said large carrier drive machinery comprises a large carrier drive motor mounted on the wheel support frame, the large carrier reductor and wheel side brakes, the large carrier drive motor is connected to the large carrier reductor, the wheel side brakes are driven by a hydraulic means and are mounted in hubs, the large drive machinery comprises four wheel support frames; said lifting machinery is mounted in the iniddle of the large carrier frame, and equipped with four cylinders being connected to the hanging tools; said steering machinery is equipped with a steering cylinder, a steering arm, steering linkages and a plane turning bearing, the plane turning bearing is mounted on the wheel support frame being connected to an upper structure body for steering the wheel; each wheel support frame is equipped with steering linkages, a steering arm is mounted between the ends of two steering linkages, one end of the steering cylinder is connected to the steering arm, and the other end of the steering cylinder is mounted the carrier frame; the swing-resisting and translation machineries for the hanging tool drives the reel on the reductor by a drive motor, and draws the hanging tool by the steel rope on the reel; the transport vehicle has four sets of swing-resisting and translation machineries for the hanging tool, being arranged in two invert trumpet shape so that the hanging tool is in tension state and is possible to translate; the lifting machinery has a fixed non-extending structure fitting both the 40 feet container operation and the 20 feet container operation.

IPC 8 full level  
**B66C 19/00** (2006.01); **B65G 63/00** (2006.01)

CPC (source: EP)  
**B66C 19/007** (2013.01)

Citation (search report)  
• [Y] EP 1506888 A1 20050216 - NOELL MOBILE SYSTEMS & CRANES [DE]  
• [A] US 4619340 A 19861028 - ELMER WILLARD O [US], et al  
• [A] US 3655081 A 19720411 - MONK JOHN THOMAS  
• [A] US 3703243 A 19721121 - MONK JOHN THOMAS  
• [PA] DE 102004013897 A1 20051013 - NOELL MOBILE SYSTEMS & CRANES [DE]  
• [Y] SCHEFFLER FEYRER MATTHIAS: "Fördermaschinen, ISBN 3-528-06626-1", 1998, VIEWEG, GERMANY, XP002427207

Cited by  
DE102011001847A1; CN102530732A; CN107601077A; US11485589B2; DE202010010290U1; DE202011103321U1

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Designated extension state (EPC)  
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**EP 1731473 A2 20061213; EP 1731473 A3 20070509; CN 1876555 A 20061213**

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