

Title (en)
TRANSFER DEVICE

Title (de)
TRANSFERVORRICHTUNG

Title (fr)
DISPOSITIF DE TRANSFERT

Publication
EP 1231162 A4 20030521 (EN)

Application
EP 00902128 A 20000207

Priority
• JP 0000662 W 20000207
• JP 25536599 A 19990909

Abstract (en)
[origin: EP1231162A1] A transfer device capable of transferring objects such as cars in vertical and horizontal directions, comprising carriages (2), vertical columns (7) which are connected rigidly to the carriages and extend upwards and downwards, tables (8) which have a stroke between the upper and lower sides of the carriage and rise and lower along the vertical columns (7), a drivingly running mechanism running the carriages, and a drivingly lifting mechanism which raises and lowers the tables, whereby, because the device is designed so that the objects on the tables can be transferred in vertical and horizontal directions, the structural problem is eliminated even if the vertical stroke is long, the objects can be carried in and out at the bottom and top ends of the stroke in vertical direction, and thus the installation system can be selected arbitrarily. <IMAGE>

IPC 1-7
E04H 6/18; **E04H 6/28**

IPC 8 full level
B65G 1/04 (2006.01); **E04H 6/18** (2006.01); **E04H 6/28** (2006.01)

CPC (source: EP KR)
E04H 6/181 (2013.01 - EP KR); **E04H 6/282** (2013.01 - EP KR)

Citation (search report)
• [XA] EP 0887491 A1 19981230 - PARK PLUS INC [US]
• [A] US 5118239 A 19920602 - MORIOKA HIROSHI [JP]
• [A] US 4976580 A 19901211 - KNAKRICK EDWARD [DE]
• [A] US 5829941 A 19981103 - ZAMORANO MORFIN LUIS RODOLFO [MX]
• [A] WO 9116515 A1 19911031 - ELETTROMECCANICHE NOVARESI S R [IT]
• [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 217 (M - 1403) 28 April 1993 (1993-04-28)
• See references of WO 0119708A1

Cited by
EP2136017A1; US7877935B2; US8051609B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1231162 A1 20020814; **EP 1231162 A4 20030521**; CN 1201983 C 20050518; CN 1373729 A 20021009; JP 2001080708 A 20010327; JP 3616733 B2 20050202; KR 100603235 B1 20060720; KR 20020027632 A 20020413; WO 0119708 A1 20010322

DOCDB simple family (application)
EP 00902128 A 20000207; CN 00812681 A 20000207; JP 0000662 W 20000207; JP 25536599 A 19990909; KR 20027003085 A 20020308