

Title (en)

A planar reciprocating type parking system

Title (de)

Parkvorrichtung mit einer in einer Ebene hin-und hergehenden Bewegung

Title (fr)

Système de parcage du type à mouvement alternatif plan

Publication

**EP 0798432 A2 19971001 (EN)**

Application

**EP 97104398 A 19970314**

Priority

- JP 6806696 A 19960325
- JP 7728896 A 19960329
- JP 8781096 A 19960410

Abstract (en)

The lift (6) of the three-dimensional parking system is located at one of the car storage compartments (3) arranged in a row on each side of the transport aisle (2). The tray transfer mechanism (11) comprises a rotary arm (12), an engagement member (13) for the rotary arm, a rotary drive unit (14) for the rotary arm (12), and a vertical drive unit (16) for the engagement arm (13). The tray transfer mechanism (11) is mounted on the carrier cart (1). Each tray (4) is provided on both sides of its underside with a pair of first and second guide members (10), which the engagement member (13) of the rotary arm (12) can engage with or disengage from. The tray transfer mechanism (11) on the carrier cart (1) can pull the tray (4) from the car storage compartment (3) or lift (6) onto the carrier cart (1) and then, in the first transfer operation, pushes the tray (4) into the lift (6) or car storage compartment (3) on the same row from which the tray (4) was pulled out or, in the second transfer operation, pushes the tray (4) into the lift (6) or car storage compartment (3) on a row opposite the one from which the tray (4) was pulled out. With this arrangement, it is possible to freely transfer the tray (4) between the carrier cart (1) and the car storage compartments (3) or the lift (6) by using only the drive unit mounted on the carrier cart (1) to activate the tray transfer mechanism (11), thus simplifying the overall construction of the parking system and reducing the cost.

IPC 1-7

**E04H 6/24**; **E04H 6/22**

IPC 8 full level

**E04H 6/22** (2006.01); **E04H 6/24** (2006.01)

CPC (source: EP KR)

**E04H 6/22** (2013.01 - EP KR); **E04H 6/24** (2013.01 - EP KR)

Cited by

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**EP 0798432 A2 19971001**; **EP 0798432 A3 19971210**; EP 1116837 A1 20010718; HK 1038780 A1 20020328; KR 100477375 B1 20050902; KR 970065928 A 19971013; TW 335848 U 19980701

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**EP 97104398 A 19970314**; EP 01110331 A 19970314; HK 02100346 A 20020116; KR 19970007388 A 19970306; TW 86201576 U 19970128