

Title (en)

Self-controlled automotive vehicle parking.

Title (de)

Bauwerk zum automatischen Parken von Fahrzeugen.

Title (fr)

Bâtiment pour garer automatiquement des voitures.

Publication

EP 0041241 A1 19811209 (EN)

Application

EP 81104098 A 19810527

Priority

- US 15419580 A 19800529
- US 25818081 A 19810427

Abstract (en)

A parking tower (10) comprises a frame (11) which defines cubicles (12a-t) positioned one above the other and an elevator (16) attached to the frame (11) for conveying vehicles (36) vertically between a ground level and vertical positions adjacent to the cubicles (12a-t). Both the elevator (16) and the cubicles (12a-t) include horizontal conveyors for conveying vehicles (36) between the cubicles (12a-t) and the elevator (16). Controlling mechanisms are actuated at, or near, the ground level to cause a motor assembly (26) to move vehicles between the ground level and cubicles. The horizontal conveyors of the elevator (16) and the cubicles are driven by a motor on the elevator and are clutched together to provide driving linkages. Endless conveyors of the elevator (16) and cubicles (12) include rollers which are mounted on non-circular shafts that can be slid out of their U-shaped frames. A selectively-actuated wheel chock prevents rolling of a vehicle after it is placed on the elevator (16). The controlling mechanisms include a selectively-actuated radiation source (28) at each floor and a safety "stop" mechanism (45b).

IPC 1-7

E04H 6/18; E04H 6/20

IPC 8 full level

E04H 6/18 (2006.01)

CPC (source: EP)

E04H 6/183 (2013.01)

Citation (search report)

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Designated contracting state (EPC)

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