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(54) Mechanical underground car parks under streets and pedestrian areas

(57) The mechanical underground car parks under streets and pedestrian areas are constructed along the street, they consist of supporting walls, floor and roof of reinforced concrete, which form tunnels (1), (2), and (3) and they are used as an underground parking space for parking cars by mechanical means.

In all the cases, the car enters the enclosure (10) on the street level and passes through the rectangular opening that lies on the enclosure floor, descends inside the tunnel (1) by the assistance of a lever system (8) or elevator.

In the first case (fig. 1 and 2), the car is positioned on the platform (7) and then placed upon the trailer (6), which moves on the rails (5) to the first available vacant

parking space inside the tunnels (1) and (2), after that, by the assistance of a lever system (9) or elevator, the platform with the car descends and is placed on the floor of the tunnel, and simultaneously the trailer (6) is released. For exiting the car park, the reversed procedure is followed. In the second case, that concerns fig.3, the continuous movement of a unique system of trailer-platforms (6) and (7) is used. The trailer-platforms (6) and (7) move continuously on two series of rails (5) that are found on different levels inside the tunnel (1) (fig.3), and by the assistance of a lever system (9) or elevator at both ends of the tunnel (1), they pass from one level to the other. During exiting the car park, the reversed procedure is followed.

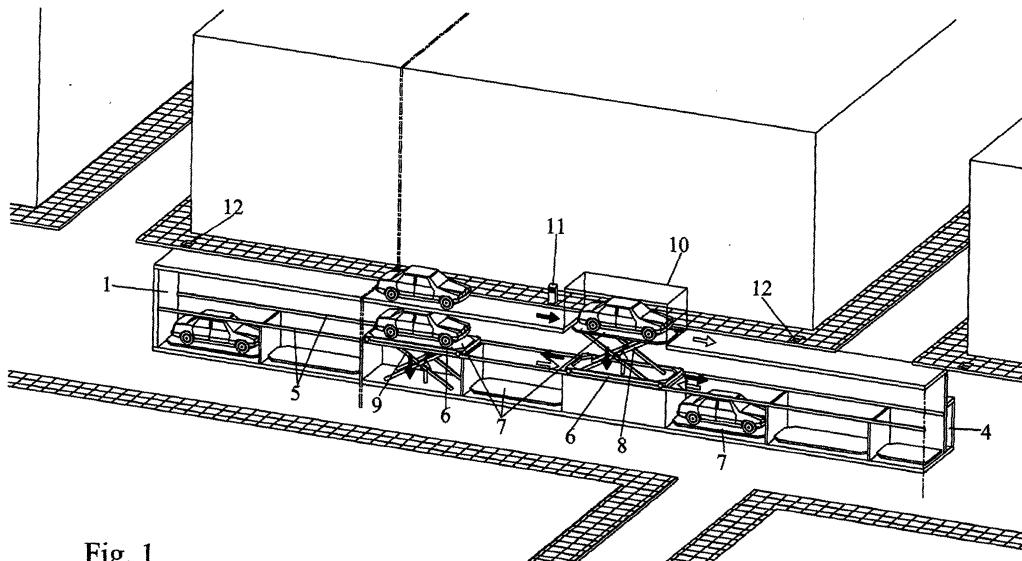


Fig. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 03 38 6016

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)						
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim							
X	FR 2 638 480 A (KRUPP TECH INDLES ; GLES CIE PARISIENNE ENTREPRISE (FR)) 4 May 1990 (1990-05-04) * page 3, line 17 - page 4, line 21 * * page 5, line 14 - page 7, line 35; figures *	1,2,4-10	E04H6/24 E04H6/22						
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A	FR 2 437 479 A (CONTROLE TRAVAUX PUBLICS ET) 25 April 1980 (1980-04-25) * page 8, line 12 - page 9, line 18; figure 21 *	2							
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)						
			E04H E21D E02D						
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>The Hague</td> <td>30 September 2004</td> <td>Porwoll, H</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	The Hague	30 September 2004	Porwoll, H
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The Hague	30 September 2004	Porwoll, H							
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>									

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 03 38 6016

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30-09-2004

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