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(71) Applicant: **Douskos, Ioannis**
Poros Trizinias, Attikis 18020 (GR)

(72) Inventor: **Douskos, Ioannis**
Poros Trizinias, Attikis 18020 (GR)

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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.

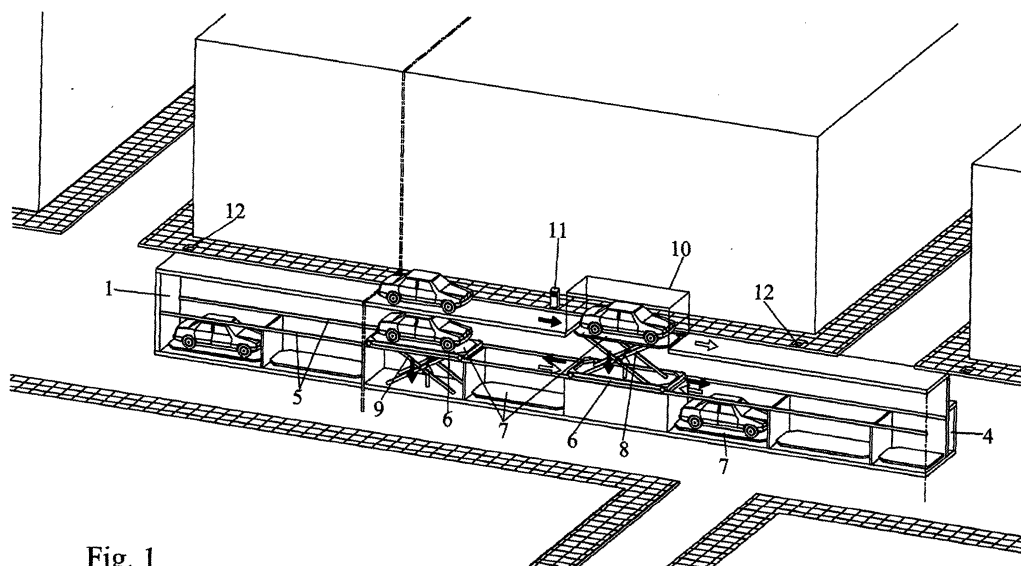


Fig. 1



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EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E04H E21D E02D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 30 September 2004	Examiner Porwoll, H
CATEGORY OF CITED DOCUMENTS 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 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 & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 03 38 6016

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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30-09-2004

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