



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 875 644 A3

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
15.03.2000 Bulletin 2000/11

(51) Int. Cl.<sup>7</sup>: E04H 6/18

(43) Date of publication A2:  
04.11.1998 Bulletin 1998/45

(21) Application number: 98107610.2

(22) Date of filing: 27.04.1998

(84) Designated Contracting States:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE  
Designated Extension States:  
AL LT LV MK RO SI

(30) Priority: 30.04.1997 IT TO970373

(71) Applicant: SOILMEC S.p.A.  
47023 Cesena, Forli (IT)

(72) Inventors:  
• Rivalta, Giorgio  
40026 Imola (Bologna) (IT)  
• Agostini, Luciano  
47023 Diegaro Di Cesena (Forli) (IT)

(74) Representative:  
Lotti, Giorgio et al  
c/o Ing. Barzanò & Zanardo Milano S.p.A.  
Corso Vittorio Emanuele II, 61  
10128 Torino (IT)

### (54) A device for the automatic handling of an auto vehicle in a tower parking lot and a handling process concerning said device

(57) A device to park a car (1) in an automated parking lot of the tower type, either underground or on the outside, provided with an entry platform to the parking lot, with several levels of parking spots (55) and with an elevator suitable to carry cars (1) of different types and sizes to the various levels, said device comprises a combination of first and second means to measure the

wheel base of the cars (1) to be parked; means to pick up and to carry the cars (1) from the entry platform to the elevator and from the elevator to the parking spots (55) and vice versa; and command and control means of the first and second measure means and of the means suitable to pick up and to carry the cars (1).

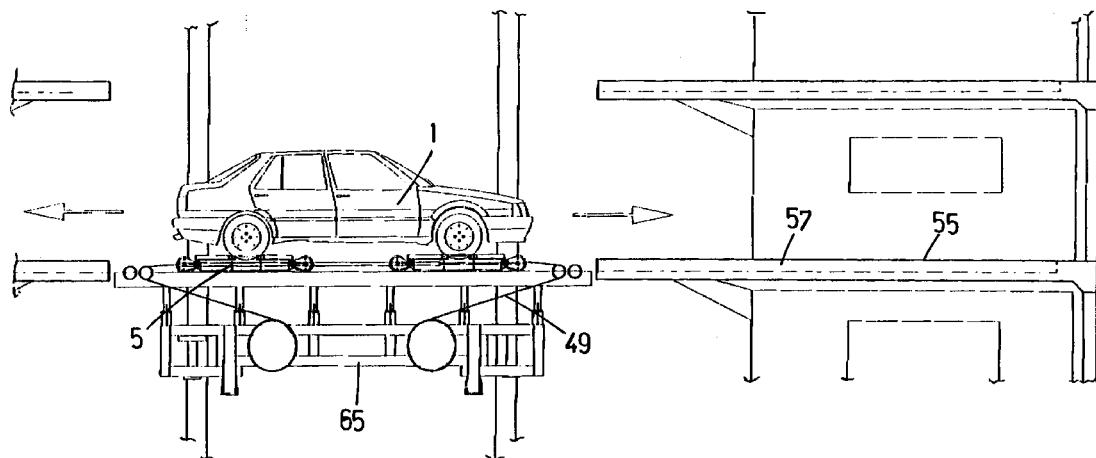


FIG.16



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 98 10 7610

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	US 5 292 218 A (IKENOUCHI TERUMASA ET AL) 8 March 1994 (1994-03-08)	1-7,16, 17	E04H6/18
A	* column 3, line 47 - line 58 * * column 4, line 39 - column 10, line 9; figures 1,4-14 *	8	
	---		
A	WO 88 04350 A (ELIASSON STIG) 16 June 1988 (1988-06-16) * page 4, line 20 - page 13, line 1; figures 1-6 *	1,6-16 -----	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			E04H
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	21 January 2000	Porwoll, H	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
A : technological background	D : document cited in the application		
O : non-written disclosure	L : document cited for other reasons		
P : intermediate document	& : member of the same patent family, corresponding document		

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

EP 98 10 7610

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. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-01-2000

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5292218	A	08-03-1994		JP 5179831 A JP 5321507 A DE 4223646 A GB 2258863 A KR 9609440 B		20-07-1993 07-12-1993 04-02-1993 24-02-1993 19-07-1993
WO 8804350	A	16-06-1988		SE 453209 B AT 74177 T DE 3777815 A DK 435988 A,B, EP 0292537 A FI 883694 A,B, HK 88995 A JP 1501719 T JP 5036589 B NO 883518 A,B, SE 465585 B SE 8703756 A SG 9590519 A US 4968208 A		18-01-1988 15-04-1992 30-04-1992 04-08-1988 30-11-1988 08-08-1988 16-06-1995 15-06-1989 31-05-1993 08-08-1988 30-09-1991 10-06-1988 01-09-1995 06-11-1990