

12

EUROPEAN PATENT APPLICATION

21 Application number: **89200667.7**

51 Int. Cl.⁴: **B 66 F 9/07**
B 65 G 1/04

22 Date of filing: **17.03.89**

30 Priority: **20.04.88 IT 2026288**

43 Date of publication of application:
25.10.89 Bulletin 89/43

84 Designated Contracting States:
AT BE CH DE ES FR GB IT LI NL SE

88 Date of deferred publication of search report:
21.03.90 Bulletin 90/12

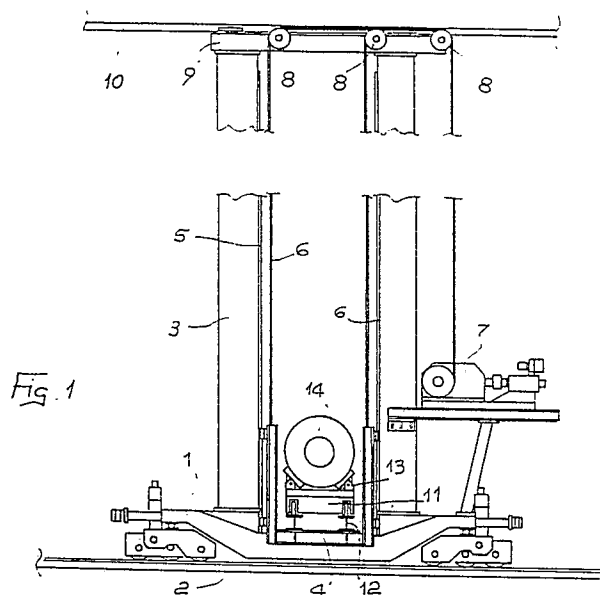
71 Applicant: **C.I.S.A. COSTRUZIONI IMPIANTI SERVIZI**
ATTREZZATURE S.p.A.
Via Filippo Turati 29
Milan (IT)

72 Inventor: **Miniotto, Pietro**
Via delle Querce 6
Gravina di Catania Catania (IT)

74 Representative: **Raimondi, Alfredo, Dott. Ing. Prof. et al**
Studio Tecnico Consulenza Brevetti Piazzale Cadorna 15
I-20123 Milano (IT)

54 **Lifting carrier truck, especially for stores with mechanical handling for heavy objects.**

57 A lifting carrier truck, especially for stores with mechanical handling, comprising a truck (1) movable on rails (2) in a passageway between opposite racks (17) of shelves, the truck carrying columns (3) extending through the entire height of the racks (17), along which columns (3) a cradle (4) can be vertically raised, wherein the cradle has a width substantially equal to, or slightly less than, the free space between each pair of facing racks (17), and above which cradle (4) there is a movable carriage (11), adapted for carrying an object to be placed in the rack, which carriage loads the cradle (4) only vertically, and can be displaced between a carrying position, in which the carriage rests entirely on the cradle (4), and a position for depositing on or collecting from the rack (17), in which the carriage (11) rests entirely upon the rack itself.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y	EP-A-0 071 883 (SOCIETE FRANCAISE DES ASCENSEURS KONE) * Figures 1-3a,4,6; page 2, line 25 - page 3, line 1; page 3, lines 9-13,19-24; page 4, lines 16-26 *	1-4	B 66 F 9/07 B 65 G 1/04
A	---	5	
Y	FR-A-2 187 633 (APLITEC LTD) * Page 6, line 32 - page 8, line 7; claim 1; figures 3-7,9,10 *	1-4	
A	---		
A	GB-A-2 052 457 (ATELIERS DE CONSTRUCTIONS MECANIKES DE VEVEY S.A.) * Figures 4,6; page 3, lines 23-60 *	1,2	
A	---		
A	GB-A-2 063 211 (THE GENERAL ELECTRIC CO. LTD) * Figures; page 1, line 114 - page 2, line 45 *	1,2	
A	---		
A	BE-A- 829 530 (ANDERSON)		TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	---		
A	GB-A-1 187 260 (PARKER et al.)		B 66 F B 65 G
A	---		
A	PATENT ABSTRACTS OF JAPAN, vol. 8, no. 203 (M-326)[1640], 18th September 1984; & JP-A-59 92 807 (HITACHI KINZOKU K.K.) 29-05-1984 -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 04-12-1989	Examiner GUTHMULLER J.A.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	