(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number: **0 132 934**
A3

(12) # EUROPEAN PATENT APPLICATION

(21) Application number: **84303716.9**

(22) Date of filing: **04.06.84**

(51) Int. Cl.⁴: **B 61 B 1/00**
B 61 B 3/00, B 61 B 13/12
B 61 C 13/04, B 61 D 3/16
B 61 D 49/00, B 61 F 9/00
B 61 F 5/38, B 61 F 13/00

(30) Priority: **12.07.83 US 513009**

(43) Date of publication of application:
13.02.85 Bulletin 85/7

(88) Date of deferred publication of search report: **04.02.87**

(84) Designated Contracting States:
BE CH DE FR GB IT LI LU NL SE

(71) Applicant: **CIMARRON TECHNOLOGY, LTD.**
353 County Road 5
Ridgway Colorado 81432(US)

(72) Inventor: **Guadagno, James R.**
353 County Road 5
Ridgway Colorado 81432(US)

(74) Representative: **Sommerville, John Henry et al,**
SOMMERVILLE & RUSHTON 11 Holywell Hill
St. Albans Hertfordshire, AL1 1EZ(GB)

(54) **Railway system and elements thereof.**

(57) In this railway system substantially each piece of rolling stock, or "car" 14, will be self-propelled locomotive which can be independently routed from any station location 10 within the system 40 to any other station location within the system. The cars may be in a form similar to current conventional mass transit or freight cars, but in preferred embodiments they will be elevated "carriers" 14 designed to carry self-contained discrete elements which have been designed or modified for ease of connection to and disconnection from such carriers. Such discrete elements will include, but are not limited to, vehicles (such as conventional automobiles 12), crates 220, pallets, similar carriers 14, and so on. System traffic control means for loading and unloading cars, accelerating and decelerating cars, and routing cars will be provided. In preferred embodiments high speed, uninterrupted, universal routing through intersections and in selected directions at switching points will be accomplished without moving switches or moving rails by means of movable switching wheels in conjunction with tracks which will be specially designed to accommodate the cars and their movable switching wheels 90. In preferred embodiments, motive power for the cars will be provided by linear synchronous motors, with the movable magnetic portions 142 of the motors carried by each car and the stationary magnetic portions 152 associated with the track 55 or structure along which the car rides. In preferred embodiments means will be provided to control the location, position, and orientation of the magnetic portion of the motor carried by the car, with respect to the stationary elements associated with the track, regardless of the tilt or angle of the body of the car. In preferred embodiments, means will be provided to continuously transfer electrical energy from stationary power lines associated with the tracks to the moving cars, even when the cars are moving at high speeds.

./...

EP 0 132 934 A3

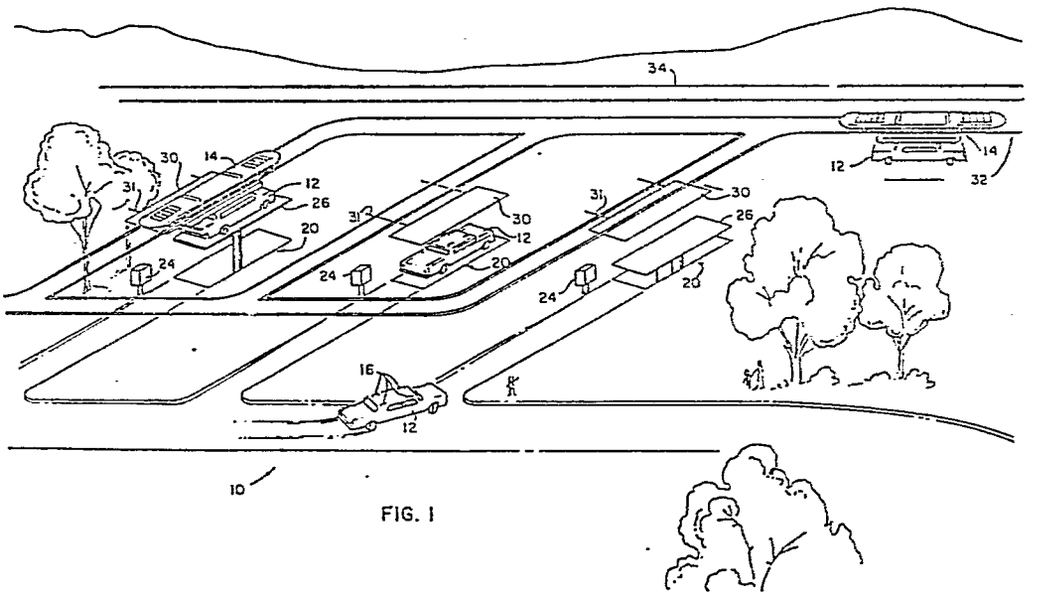

FIG. 1

European Patent Office

EUROPEAN SEARCH REPORT

0132934
Application number

EP 84 30 3716

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)
X	AU-B- 439 141 (L.D. BARRY) * Figures 1,5,6,11,15; page 15, paragraph 1 - page 16, paragraph 1; page 19, paragraph 2 - page 26, paragraph 1; page 64, paragraph 2 *	1,4,13,15,16	B 61 B 1/00 B 61 B 3/00 B 61 B 13/12 B 61 C 13/04 B 61 D 3/16 B 61 D 49/00 B 61 F 9/00 B 61 F 5/38 B 61 F 13/00
Y	* Figure 1; page 2, paragraph 1 *	2,5,14	
X	US-A-3 847 085 (A.B. RYPINSKI) * Figures 1,4; column 1, lines 39-58 *	1,4,11,13,15	
Y		2,14	TECHNICAL FIELDS SEARCHED (Int. Cl 4)
Y	DE-C- 576 284 (F. KRUCKENBERG et al.) * Figure 6; claim 10 *	2	B 61 B B 61 C B 61 D B 61 F B 60 L
A		6	
Y	DE-A-2 343 884 (ROBERT BOSCH GmbH) * Figure 1; claim 1 *	5	

-/-

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	27-10-1986	CHLOSTA P.

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

EPO Form 1503 03 82

European Patent Office

EUROPEAN SEARCH REPORT

0132934
Application number

EP 84 30 3716

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)
A	US-A-3 834 316 (W. HENNINGS) * Figures 3,4; column 2, lines 7-13 *	6	
A	US-A-3 803 466 (R.C. STARKEY) * Column 7, lines 6-12 *	7	
A	DE-A-2 148 942 (KRAUSS-MAFFEI AG) * Page 1, paragraph 1; page 6, last paragraph - page 7, last line *	8,9	
A	DE-A-1 405 002 (W. BÄSELER) * Figure 1; claim 1 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	27-10-1986	CHLOSTA P.

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

EPO Form 1503 03 82