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(71) Applicant (for all designated States except US): **NZEE LODA LIMITED** [NZ/NZ]; B D O Spicers Hamilton Limited, 1st Floor, B D O Building Cnr Harwood and Rostrevor Street, Hamilton, 3402 (NZ).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RABARTS, Graham Bruce** [—/NZ]; 383 Te Kowhai Road, Hamilton, 3288 (NZ). **HOLMES, Mark John** [—/NZ]; 129 Station Road, Matamata, 3472 (NZ).

(74) Agents: **BETTERIDGE, Gary, P** et al.; James & Wells Intellectual Property, Private Bag 3140, Hamilton, 3240 (NZ).

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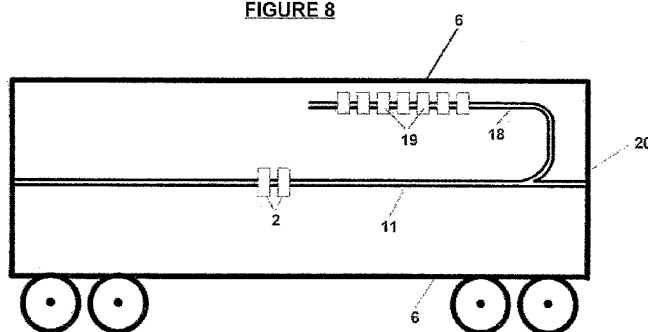
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(54) Title: METHOD AND APPARATUS FOR STACKING LOADS IN VEHICLES

FIGURE 8



(57) Abstract: A system for optimising storage in an enclosed transport trailer (6), having transverse bearing beams (2) for supporting a load such as loaded pallets (12, 13) at a mid height of the trailer such that two storage levels are available. The beams have a wheel (10) at each end that runs in a horizontal track (11) attached to each side wall of the trailer, the track enclosing the wheels to prevent them from disengaging from the track. Adjacent beams can be attached together at variable spacings using a spacer bar (15) to suit a particular pallet or load size. The track has a junction adjacent the open end (20) of the trailer that leads up to another track (18) immediately below the roof line where the beams can be moved to an out of the way storage position (19) when not required.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC – IPC/ECLA B60P1/00, 1/52, 1/64, 1/64C1, 1/64C5, 1/64C9, 7/00, 7/06, 7/08, 7/13, B65G 1/00, 1/02, 1/02B, 1/04, 1/06, 1/20, 35/06, 35/08, 67/20, B61D 3/02, 3/16, 3/20, 47/-, B63B 25/22, 27/22, B60R 7/-, 9/-, 11/- & Keywords (rail, track, guide, pallet, box, container, crate, truck, trailer, lorry, van, wheel, castor, roller, layer, level, above, over, upper, split, junction, branch, divide) & like terms

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y Y	US 4094546 A (GLASSMEYER et al.) 13 June 1978 Figures 1-12; column 4, line 28 to column 8, line 44	1-2, 4-6, 9-28 3, 7-8
X Y	US 6112915 A (LEWIS) 5 September 2000 Figures 1-2, 13-18; column 3, lines 3-23; column 4, lines 54-63; abstract	1-2, 4-5, 9-22, 24-28 6, 7-8
X	US 2468101 A (NAMPA) 26 April 1949 Figures 1-9; column 3, line 20 to column 5, line 70	1-2, 4-7, 9-21, 26-27



Further documents are listed in the continuation of Box C



See patent family annex

* Special categories of cited documents:			
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

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21 May 2009

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Name and mailing address of the ISA/AU

AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaustralia.gov.au
Facsimile No. +61 2 6283 7999

Authorized officer

ALLAN SMAILES

AUSTRALIAN PATENT OFFICE
(ISO 9001 Quality Certified Service)
Telephone No : +61 2 6283 2154

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2008/000317

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: **29-30**
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

These claims do not comply with Rule 6.2(a) because they rely on references to the description and drawings.

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2008/000317

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X X,Y	US 1868638 A (MACKEY) 26 July 1932 Figures 1-7; page 1, line 85 to page 4, line 12	1-6, 9-11, 26 7-8
X	US 3094940 A (LEARMONT) 25 June 1963 Figures 1-5; column 2, line 30 to column 4, line 15	1-2, 4-7, 9-11, 26
X Y	US 5228823 A (CROOK) 20 July 1993 Figures 1, 3, 7; column 3, line 56 to column 5, line 28	1-5, 9-11, 26 6, 7-8
Y	AU 27478/92 (654053) B (MAXI-CUBE PTY LTD) 20 October 1994 Figures 1-3; page 4, line 3 to page 6, line 12	1-28
A	US 2006/0051178 A1 (SCOTT) 9 March 2006 Figures 1D and 1E	2-3

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NZ2008/000317

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US	4094546	JP	53053819		
US	6112915	CA	2280879	EP	0966219
		US	2002190018	WO	9930596
US	2468101	NONE			
US	1868638	NONE			
US	3094940	BE	600938	GB	919003
US	5228823	CA	2067985	EP	0512791
AU	654053	AU	27478/92		
US	2006051178	CA	2576456	EP	1805060
		WO	2006029117	US	7410335
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					