



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11)

**EP 0 888 947 A3**

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
**26.04.2000 Bulletin 2000/17**

(51) Int Cl.7: **B61D 39/00**

(43) Date of publication A2:  
**07.01.1999 Bulletin 1999/01**

(21) Application number: **98850091.4**

(22) Date of filing: **29.05.1998**

(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**

(72) Inventor: **Eriksson, Marten**  
**831 35 Östersund (SE)**

(74) Representative: **Rostovanyi, Peter**  
**AWAPATENT AB,**  
**Box 5117**  
**200 71 Malmö (SE)**

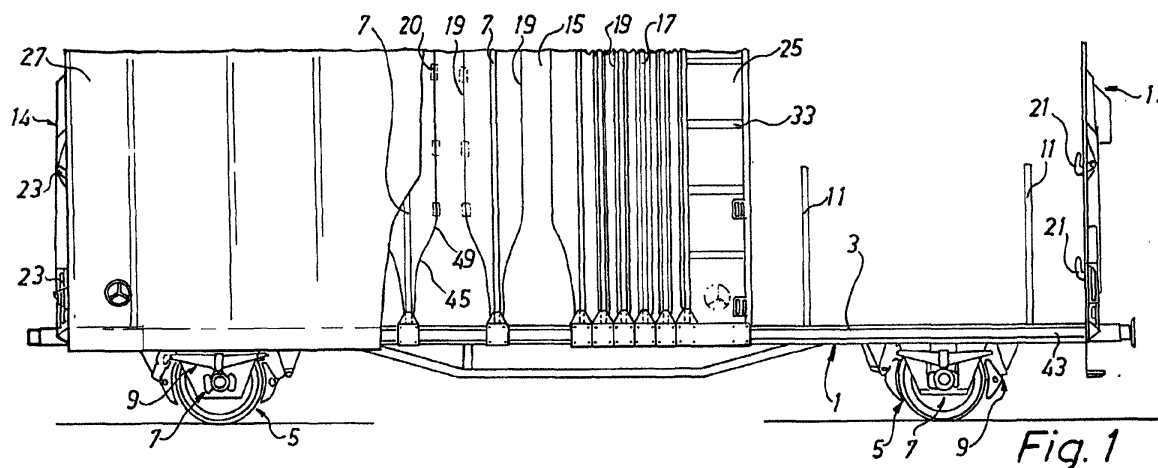
(30) Priority: **02.06.1997 SE 9702071**

(71) Applicant: **Grandwaggon Aktiebolag**  
**831 52 Östersund (SE)**

### (54) Cover arrangement for waggon

(57) The invention concerns a cover arrangement for covering a waggon, said arrangement comprising two rigid end walls (13, 14), which are attachable to the waggon (1) at either end thereof, a cover (15) and a plurality of rigid cover arches (17). Each cover arch extends between the long sides of the waggon and has at its ends end pieces (35), which are displaceably connectible to the waggon for displacement of the cover arch along the waggon. The cover arches are connected to the cover at a distance from each other to form a covered space under the cover. The end walls comprise locking means (21, 23) for releasable locking of two end

arches (25, 27) of the cover arches in engagement with an end wall each. The arrangement further comprises members (19) which are arranged between the cover arches and adapted to extend the cover cloth between the arches, each member being elongate, arcuate and resilient. Each member is, when the cover arrangement is arranged on a waggon, pretensioned by elastic bending of at least part of the member, such that it applies an outwardly directed pretensioning force on the cover cloth, at least when the end arches are locked. As a result, the members assist in extending the cover cloth as the arches are moved together.



**Fig. 1**

**EP 0 888 947 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 98 85 0091

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.6)
A,D	EP 0 609 655 A (TALBOT WAGGONFAB) 10 August 1994 (1994-08-10) * the whole document *	1	B61D39/00
A	US 5 538 313 A (HENNING STEVEN A) 23 July 1996 (1996-07-23) * column 2, line 50 - column 4, line 55; figures 1-6 *	1	
A	US 1 863 957 A (WILLIAM WOOLCOTT) 21 June 1932 (1932-06-21) * the whole document *	1	
A	GB 2 175 632 A (FREIGHT BONALLACK LTD) 3 December 1986 (1986-12-03) * abstract; figure 5 *	1	
A	GB 2 199 549 A (DAVIS PHILIP PETER) 13 July 1988 (1988-07-13) * abstract; figures *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B61D B60J
Place of search	Date of completion of the search	Examiner	
MUNICH	2 March 2000	Wagner, A	
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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  &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/82 (F04G01)

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

EP 98 85 0091

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.

02-03-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0609655 A	10-08-1994	DE 9309466 U	30-09-1993
		AT 152680 T	15-05-1993
		DE 59402623 D	12-06-1997
		DK 609655 T	13-10-1997
		FI 940359 A	31-07-1994
		HU 67885 A	29-05-1995
		NO 940292 A	01-08-1994
US 5538313 A	23-07-1996	CA 2159749 A	24-05-1996
US 1863957 A	21-06-1932	NONE	
GB 2175632 A	03-12-1986	NONE	
GB 2199549 A	13-07-1988	EP 0273740 A	06-07-1988
		AU 608312 B	28-03-1991
		AU 1447788 A	03-11-1988
		ZA 8802529 A	28-12-1988

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82