



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 055 598 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
21.08.2002 Bulletin 2002/34

(51) Int Cl.7: **B63B 25/22**

(43) Date of publication A2:
29.11.2000 Bulletin 2000/48

(21) Application number: **00110294.6**

(22) Date of filing: **23.05.2000**

(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: **Hasegawa, Tukasa,**
Kobe Shipyard & Machinery Works
Hyogo-ku, Kobe-shi, Hyogo-ken (JP)

(74) Representative: **Behrens, Dieter, Dr.-Ing.**
Wuesthoff & Wuesthoff
Patent- und Rechtsanwälte
Schweigerstrasse 2
81541 München (DE)

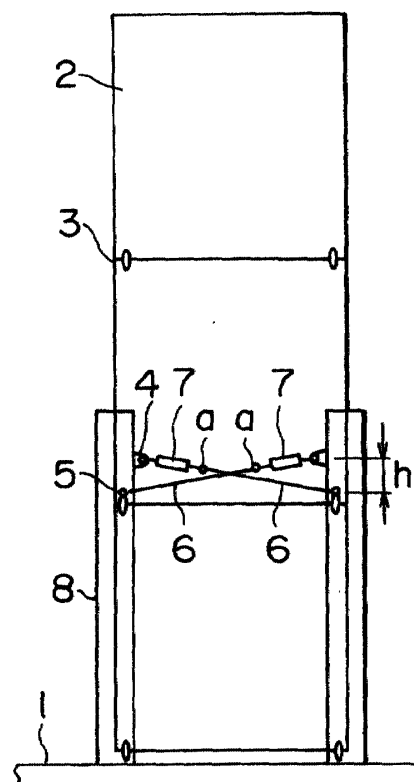
(30) Priority: **25.05.1999 JP 14504999**

(71) Applicant: **Mitsubishi Heavy Industries, Ltd.**
Tokyo (JP)

(54) **On-deck container lashing equipment**

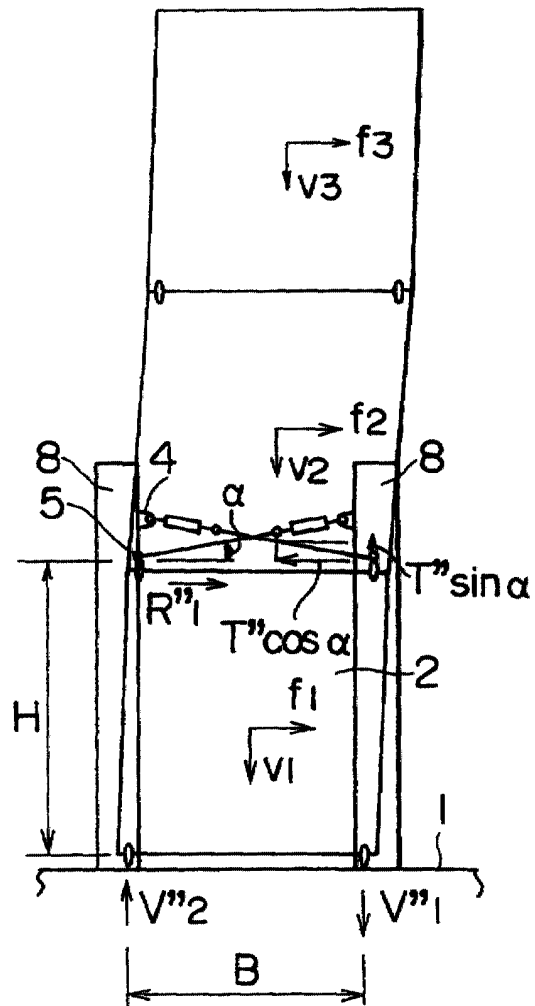
(57) One end (upper end) of a tightening member consisting of a lashing rod (6) and a turnbuckle (7) is attached to a lashing eye plate (4) on a lashing bridge pillar (8) erected on the deck of a ship, the tightening member extends slantwise downward, and the other end (lower end) thereof is attached to a corner metal (5) of a container (2).

FIG. 2(a)



EP 1 055 598 A3

FIG. 2(b)





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 11 0294

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.7)
X	WO 96 30255 A (ODENSE STAALSKIBSVAERFT ;LINDBERG KARSTEN (FR); RASMUSSEN POUL KEL) 3 October 1996 (1996-10-03)	1,2	B63B25/22
A	* page 5, line 22 - page 6, line 24 * * page 7, line 28 - page 8, line 6; figure 3 *	3	
A	US 3 083 670 A (HENRY KOZLOWSKI ET AL) 2 April 1963 (1963-04-02) * column 7, line 3 - line 12; figures 1,5 *	3	
A	GB 1 247 118 A (MITSUI SHIPBUILDING AND ENGINEERING CO. LTD) 22 September 1971 (1971-09-22) * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B63B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 June 2002	Examiner Mauriès, L
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 03/02 (P04C01)

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

EP 00 11 0294

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.

26-06-2002

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9630255	A	03-10-1996	AU	4329896 A	16-10-1996
			AU	4329996 A	16-10-1996
			CN	1179756 A ,B	22-04-1998
			CN	1179757 A ,B	22-04-1998
			DE	69616295 D1	29-11-2001
			DE	69621233 D1	20-06-2002
			WO	9630255 A1	03-10-1996
			WO	9630256 A1	03-10-1996
			DK	815003 T3	19-11-2001
			EP	0815003 A1	07-01-1998
			EP	0815004 A1	07-01-1998
			JP	11502484 T	02-03-1999
			JP	11502485 T	02-03-1999
			NO	974451 A	14-11-1997
			NO	974452 A	14-11-1997

US 3083670	A	02-04-1963	NONE		

GB 1247118	A	22-09-1971	DE	2024333 A1	26-11-1970
			FR	2048486 A5	19-03-1971
			NL	7007195 A	23-11-1970

EPO FORM P0459

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