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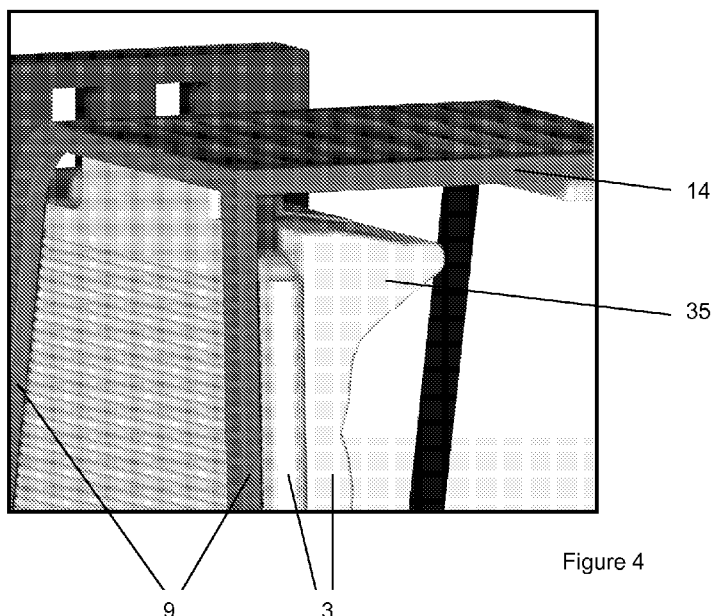


Figure 4

(57) Abstract: A safety device (1) for a forklift (2) comprising an air cushion (3) housed within an air cushion storage device (4) in a storage position. The air cushion (3) has an outer inflatable support layer (7) and a separate inner inflatable cushion layer (8). The outer inflatable support layer (7) has a higher working pressure than the inner inflatable cushion layer (8) in a deployed position. The outer inflatable support layer (7) is engaged with a portion of a cab of the forklift (2) for supporting the air cushion (3) in the deployed position. The inner inflatable cushion layer (8) is formed for cushioning the fall of the driver in the deployed position. The safety device (1) also has an arrangement (10) for deploying and inflating the air cushion (3) during a capsizing event.

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ADD.  
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B. FIELDS SEARCHED  
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/045908 A2 (INDIANA MILLS & MFG [US]) 3 June 2004 (2004-06-03)	1-4,9-24
Y	page 13, line 15 - page 14, line 27; figures 5,6,8	5-8
Y	----- US 2008/079247 A1 (HENRICSSON PETER [SE] ET AL) 3 April 2008 (2008-04-03)	5-8
A	paragraph [0017]; figures 4,5	1
X	----- EP 1 686 015 A2 (INDIANA MILLS & MFG [US]) 2 August 2006 (2006-08-02)	1
A	paragraphs [0053], [0059], [0073]; figures 2-4	2-24
A	----- JP 11 209086 A (MITSUBISHI HEAVY IND LTD) 3 August 1999 (1999-08-03)	1-24
	abstract; figure 1	
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2005/234140 A1 (AASE JAN H [US] ET AL) 20 October 2005 (2005-10-20) abstract; figures 2-4 -----	1-24
A	US 2006/232051 A1 (MORRIS STEVEN E [US] ET AL) 19 October 2006 (2006-10-19) paragraph [0014] - paragraph [0021]; figures 2,3 -----	1-24
A	JP 2000 302392 A (NIPPON YUSOKI CO LTD) 31 October 2000 (2000-10-31) abstract -----	1-24

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
WO 2004045908	A2	03-06-2004	AU 2003290893 A1	15-06-2004
			EP 1585656 A2	19-10-2005
			US 2004212217 A1	28-10-2004
-----				
US 2008079247	A1	03-04-2008	DE 102004048250 A1	20-04-2006
			WO 2006037536 A1	13-04-2006
			JP 4608551 B2	12-01-2011
			JP 2008515693 A	15-05-2008
-----				
EP 1686015	A2	02-08-2006	JP 2006206043 A	10-08-2006
-----				
JP 11209086	A	03-08-1999	NONE	
-----				
US 2005234140	A1	20-10-2005	US 2008190684 A1	14-08-2008
-----				
US 2006232051	A1	19-10-2006	DE 102006017066 A1	16-11-2006
-----				
JP 2000302392	A	31-10-2000	NONE	
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