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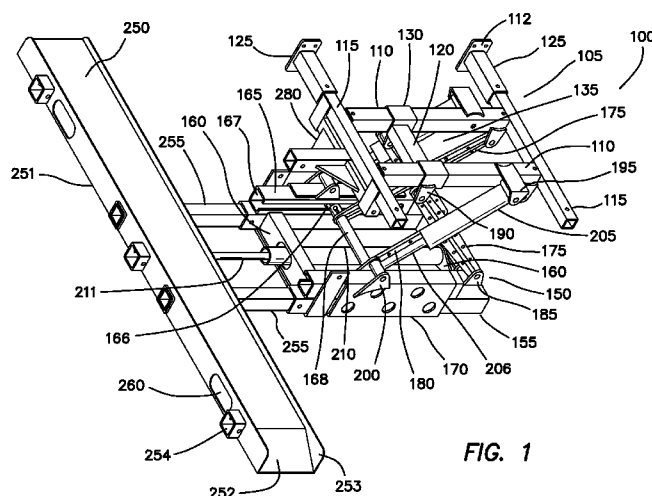
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(54) Title: UTILITY LIFT HANDLER CONFIGURED TO TRANSPORT MOTORCYCLES, ATVs AND THE LIKE



(57) Abstract: An automated lift hauler configured for attachment to a vehicle frame near a rear of the vehicle. When not in use, the lift hauler is substantially concealed beneath the vehicle. During use, the lift hauler extends from beneath the vehicle such that large items may be supported by a lift hauler platform. One or more hydraulically-driven pistons move the lift hauler from a concealed position beneath the vehicle to a use position rearward of the vehicle. The lift hauler comprises a series of frame members and utilizes a scissor design to facilitate movement between a lower position, which allows large items to be loaded on a lift hauler platform, to a raised position which allows the large items to be restrained and transported. Operating the lift hauler may be accomplished using a remote control or in-cab control panel or mounted control panel near the rear of the vehicle.



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/021296**A. CLASSIFICATION OF SUBJECT MATTER*****B60P 1/44(2006.01)i, B60P 1/16(2006.01)i, B62D 33/02(2006.01)i***

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)

B60P 1/44; A61G 5/00; B60P 3/07; B60P 9/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: truck, lift, bed, transport, motorcycle, hauler, piston

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002-0110445 A1 (JON ODEGAARD) 15 August 2002 See paragraph 11 to paragraph 65; claims 1-19	1-15
A	US 2007-0065262 A1 (MICHAEL MURPHY) 22 March 2007 See paragraph 19 to paragraph 37; claims 1-20	1-15
A	WO 88-03484 A1 (SVENSSON, INGEMAR) 19 May 1988 See page 2, line 3 to page 8, line 20; claims 1-7	1-15
A	US 2005-0129490 A1 (MARK HUTCHINS) 16 June 2005 See paragraph 34 to paragraph 60; claims 1-20	1-15

☐ 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

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"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

"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

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"&" document member of the same patent family

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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
US 2002-0110445 A1	15.08.2002	None	
US 2007-0065262 A1	22.03.2007	US 7484921 B2	03.02.2009
WO 88-03484 A1	19.05.1988	AR241767A1	30.12.1992
		AU 611658 B2	20.06.1991
		AU 8270987 A	01.06.1988
		BR 8707869 A	03.10.1989
		CA 1290728 C	15.10.1991
		EP 0329697 A1	30.08.1989
		EP 0329697 B1	12.06.1991
		ES 2008320 A6	16.07.1989
		FI892216A	09.05.1989
		FI892216D0	09.05.1989
		JP 2500901 T	29.03.1990
		JP H025-00901-00901	29.03.1990
		KR 10-1989-0700085 A	02.03.1989
		MX 160032 A	09.11.1989
		PT86100A	15.12.1988
		PT86100B	31.08.1993
		SE461209B	22.01.1990
		SE461209C	31.05.1990
		SE8604797A	11.05.1988
		SE8604797D0	10.11.1986
		SE8604797L	11.05.1988
		US 04958979A A	25.09.1990
		WO 88-03484A1	19.05.1988
US 2005-0129490 A1	16.06.2005	None	