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(54) Title: MACHINE SUSPENSION SYSTEM HAVING TORSION AXLE ASSEMBLIES

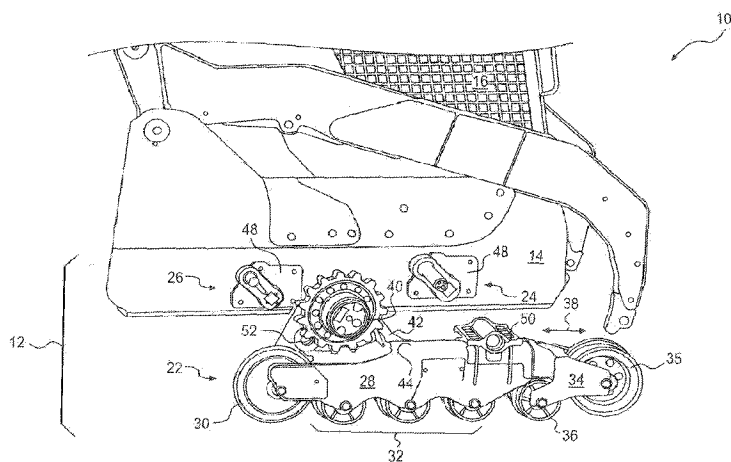


FIG. 2

(57) Abstract: A suspension system (12) for a machine (10) is disclosed. The suspension system may have a front torsion axle assembly (24) with a first arm (56) connected at a first end (56a) to a first shaft (54), and a first axle (58) connected to a second end (56b) of the first arm. The suspension system may also have a rear torsion axle assembly (26) with a second arm (56) connected at a first end (56a) to a second shaft (54), and a second axle (58) connected to a second end (56b) of the second arm. The suspension system may further have a frame (14) connected to an end of the first shaft and an end of the second shaft. The second ends of the first and second arms are oriented within common angular quadrants defined by a coordinate system having an axis passing through the first ends of the first and second arms and aligned with a travel direction of the machine.

A. CLASSIFICATION OF SUBJECT MATTER***B62D 55/108(2006.01)i, B62D 55/104(2006.01)i, B62D 55/10(2006.01)i, B60G 11/18(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)

B62D 55/108; B23P 17/00; B60G 9/00; B62D 55/12; B62D 55/00; B62D 55/04

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: caterpillar, track, suspension, torsion, absorber, axle

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2010-0060075 A1 (HANSEN RONALD S.) 11 March 2010 See paragraph 47 - paragraph 61 and figure 3.	1,5-7 2-4,8-10
Y	US 2009-0321152 A1 (ARULRAJA MYLVAGANAM et al.) 31 December 2009 See paragraph 21 - paragraph 27 and figure 1.	2,9-10
Y	US 2998981 A (DERR, E. B. et al.) 05 September 1961 See column 2, line 47 - column 4, line 4 and figure 2.	3-4,8
A	US 2001-0001431 A1 (GARY LEMKE et al.) 24 May 2001 See paragraph 29 - paragraph 31 and figure 2.	1-10



Further documents are listed in the continuation of Box C.



See patent family annex.

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