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(71) Applicant (for all designated States except US): **DETROIT STEEL PRODUCTS CO., INC.** [US/US]; 500 N. Rangeline Road, Morristown, IN 46161 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GUTHRIE, Brian, Scott** [US/US]; 8 Hensell Court, Carmel, IN 46033 (US).

(74) Agent: **FILDES, Christopher, J.**; Fildes & Outland, P.C., Suite 2, 20916 Mack Avenue, Grosse Pointe Woods, MI 48236 (US).

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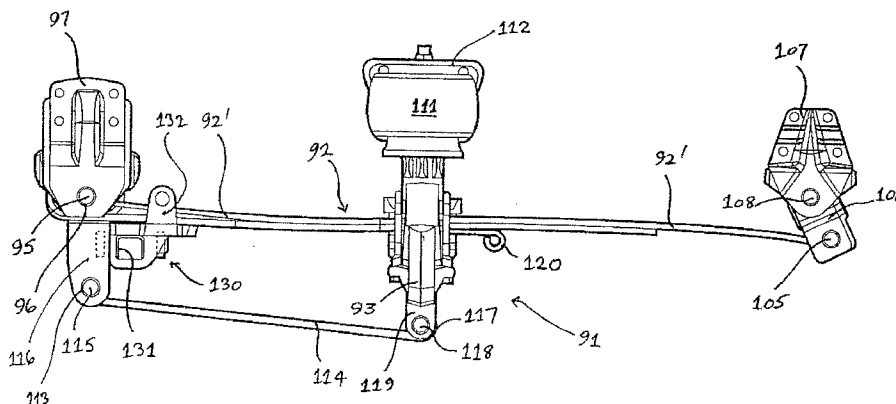
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(54) Title: VEHICLE LEAF SPRING SUSPENSION WITH RADIUS ARMS



(57) Abstract: A vehicle suspension disclosed includes a pair of leaf springs arranged to extend longitudinally of a frame of an associated vehicle on respective opposed sides thereof, each leaf spring having one of its ends connectable pivotally to the vehicle frame at a fixed location with respect thereto and arranged to have mounted thereto intermediate its ends an axle extending transversely of the vehicle frame; a first bracket attached rigidly to each leaf spring at or adjacent the fixed location at which the one end of each leaf spring is connectable pivotally to the vehicle frame; a radius arm arranged to extend longitudinally on each side of the vehicle frame and having one end thereof connected pivotally to the first bracket in spaced relationship to said fixed location; and a second bracket which is attachable rigidly to the axle and to which is connected the other end of the corresponding radius arm in spaced relationship to the axle.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/16269

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: **B60G 11/04**( 2006.01),**11/34**( 2006.01)  
  
 USPC: 280/124.17,124.174;267/25  
 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)  
 U.S. : 280/124.17, 124.174, 124.175, 124.153; 267/25, 52, 271, 38  
  
 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
  
 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)


**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,354,092 A (CALVERT) 11 October 1994 (11.10.1994), figure 2.	1-5, 25-29, 49-53
X	US 3,430,976 A (VAUTIER) 4 March 1969 (04.30.1969), figures 1 & 2.	1-5, 25-29, 49-53
X	US 2,264,174 A (CRUMP) 25 November 1941 (25.11.1941), figure 1.	1-5, 25-29, 49-53
A	US 5,137,300 A (WALTON) 11 August 1992 (11.08.1992), figure 2.	1-5, 25-29, 49-53
A	US 6,386,565 B1 (KUGLER) 14 May 2002 (14.05.2002), figure 3.	1-5, 25-29, 49-53

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	"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
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"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	"&" document member of the same patent family

Date of the actual completion of the international search: 20 July 2006 (20.07.2006)      Date of mailing of the international search report: 26 JAN 2007

Name and mailing address of the ISA/US: Mail Stop PCT, Attn: ISA/US, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, Facsimile No. (571) 273-3201  
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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/16269

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.: 6-24, 30-48, 54-72  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

- Remark on Protest**
- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
  - The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
  - No protest accompanied the payment of additional search fees.