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(54) Title: APPARATUS, SYSTEM, AND METHOD FOR BACK UP CONTROL OF A TOWED VEHICLE

(57) Abstract: A system and method are disclosed for back up control of a towed-vehicle. The system may include a back up detector (112) least one misalignment sensor (118), a controller (116), and a misalignment responder (200). The misalignment responder (200) turns the steering wheel of a towed-vehicle. The system may further include a wireless transmitter (128) to communicate signals between a towing-vehicle and the towed-vehicle. A misalignment signal (120) may be produced by the misalignment sensor (118) when a relative angle between the towing-vehicle and the towed-vehicle exceeds a relative angle threshold. The system may further include a monitoring device (132) in the towing-vehicle to provide an indication of jackknifing and that a towed-vehicle's battery power is low.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US07/67712

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: **G08B 21/00( 2006.01);B60Q 1/00( 2006.01);B60L 1/14( 2006.01);B60D 1/36( 2006.01),1/28( 2006.01)**

USPC: 340/431,425.5;307/10.8;280/477;180/271

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. : 340/431, 425.5, 426.31, 687; 307/10.8, 9.1; 280/ 477, 475, 292, 511, 493, 479.2; 180/271, 274, 280, 281

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)  
EAST

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2004/0178329 A1 (KARE et al) 16 September 2004 (16.09.2004) see entire doc	1-26
A	US 2004/0017285 (ZIELINSKI et al) 29 January 2004 (29.01.2004) see entire doc	1-26
A	US 3,947,839 A (ZIGMANT) 30 March 1976 (30.03.1976) entire doc	1-26
A	US 7,154,385 B2 (LEE et al) 26 December 2006 (26.12.2006) entire doc	1-26

Further documents are listed in the continuation of Box C.

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