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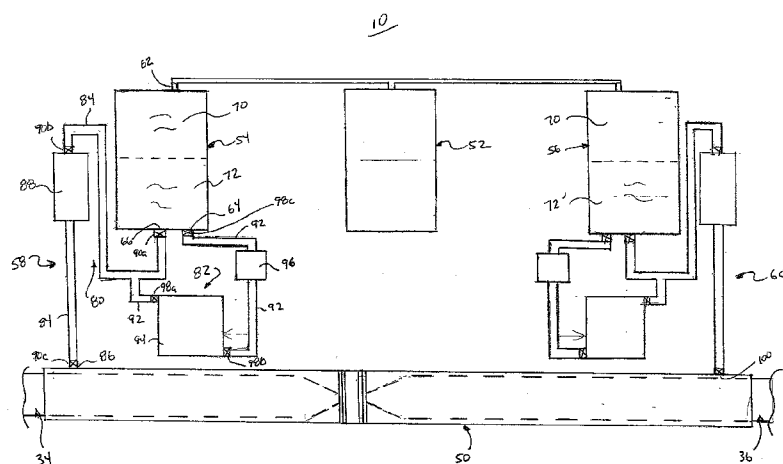
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(54) Title: PRESSURIZED FLUID-BASED POWER SYSTEM FOR DEVICES, SUCH AS VEHICLE DRIVETRAINS



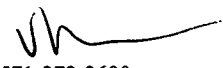
(57) Abstract: A power system for a vehicle drivetrain including a cylinder, first and second pistons, and a pressure source. The cylinder defines a central bore, a first inlet adjacent a first end, and a second inlet adjacent a second end. The pistons are coaxially disposed within the central bore, and each includes a leading end, a trailing end, and a piston body. The leading end is movably sealed within the central bore. The trailing end extends from the cylinder for coupling to the drivetrain. The piston body defines an outer diameter that is at least 75% of a diameter of the central bore. The pressure source is in fluid communication with the inlets. Forced flow of working fluid into the first inlet and release of working fluid from the second inlet effectuates movement of the pistons, and vice-versa. Reciprocating movement of the pistons provides power to the drivetrain.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC: B60K 6/00(2007.10),8/00(2006.01),25/10(2006.01);B60L 11/16(2006.01);B62M 1/10(2006.01) USPC: 180/54.1,165,305,65.3,306;60/413,597,668,512,595 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. : 180/54.1, 165, 305, 65.3, 306; 60/413, 597, 668, 512, 595 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE 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 6,834,737 A (BLOXHAM) 28 DEC 2004 (28.12.2004)	
A	US 6,719,080 A (GRAY, JR.) 13 APRIL 2004 (13.04.2004)	
A	US 6,073,445 A (JOHNSON) 13 JUNE 2000 (13.06.2000)	
A	US 5,647,734 A (MILLERON) 15 JULY 1997 (15.07.1997)	
A	US 5,579,640 A (GRAY, JR. ET AL.) 03 DEC 1996 (03.12.1996)	
A	US 4,227,587 A (CARMAN) 14 OCT 1980 (14.10.1980)	
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"P"	document published prior to the international filing date but later than the priority date claimed	
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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		Authorized officer Hau V. Phan  Telephone No. 571-272-3600