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| (71) Applicant: EATON CORPORATION [US/US]; 1000 Eaton Boulevard, Cleveland, OH 44122 (US). | |

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(54) Title: PRESSURE COMPENSATION CONTROL OF A FIXED DISPLACEMENT PUMP IN A PUMPING AND METERING SYSTEM AND ASSOCIATED METHOD

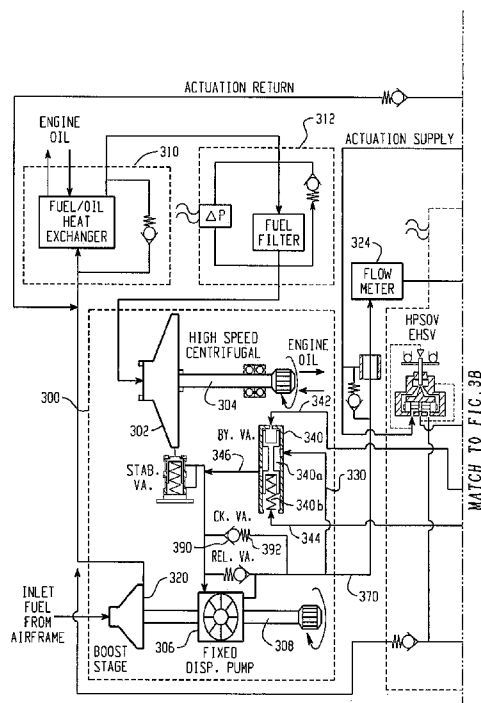


Fig. 3A

(57) Abstract: A fuel system includes a pump unit having at least a fixed displacement pump supplying pressurized flow. A fuel control assembly receives flow from the pump unit and includes at least one metering valve and at least one throttling valve. A control (bypass valve control) for the fixed displacement pump receives first and second pressure signals indicative of a pressure differential across the throttling valve, or across the metering valve/throttling valve combination, for altering output from the fixed displacement pump in response to the pressure differential. In other embodiments, the pump unit includes a centrifugal pump and a fixed displacement pump that can be fully or partially redundant depending on sizing of the pumps, and the system requirements.



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ADD.

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B. FIELDS SEARCHED

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/175449 A1 (MAHONEY TIMOTHY D [US] ET AL) 2 August 2007 (2007-08-02) abstract; figures 1,2 paragraphs [0004] - [0007], [0012] - [0024], [0029] - [0033] claim 1 ----- -/--	1-3,6,8, 10,12, 13, 16-18, 22,25, 26, 28-30, 33, 36-38,41



Further documents are listed in the continuation of Box C.



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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