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(54) **Pump controller**

(57) The present invention provides a technique using current sensing to control the pressure at constant level without the direct sensing of the pressure. This technique will help to reduce dependency solely on switch or sensor and their non linearity and other associated problems such as the non-repetitive behavior, being affected by EMI etc. The technique includes using a pump controller featuring one or more modules configured to respond to one or more input signals containing information about current provided from a pump; and configured to provide one or more output signals containing information to control the pump to operate at a substantially constant pressure without the direct sensing of pump pressure. The one or more modules control the operation of the pump based at least partly on a table of characteristics related to voltage and current that is calibrated for each pump.

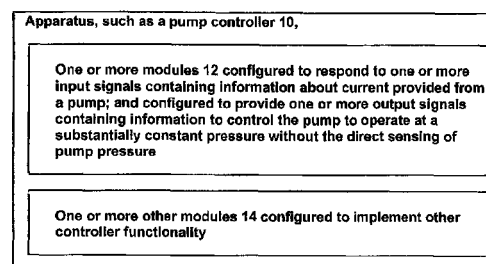


Figure 1a: Block Diagram of Pump Controller

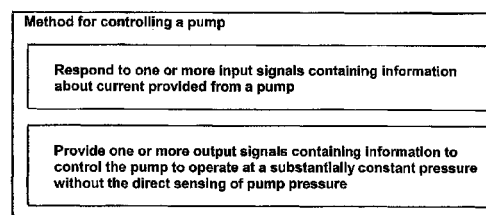


Figure 1b: Block Diagram of Pump Controller

Figure 1



EUROPEAN SEARCH REPORT

Application Number
EP 10 16 0593

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Y	* paragraph [0002] - paragraph [0048]; figures 1-7 *	2,3,9	
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Y	* column 1, line 34 - column 2, line 15; claims 1,6,7; figure 2 *	2,3,9	
	* column 2, line 51 - column 3, line 46 *		
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 4 May 2011	Examiner Jurado Orenes, A
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 10 16 0593

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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