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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM,

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[Continued on next page]

(54) **Title:** SYSTEM FOR PRODUCING ENERGY USING THE WATER HAMMER EFFECT

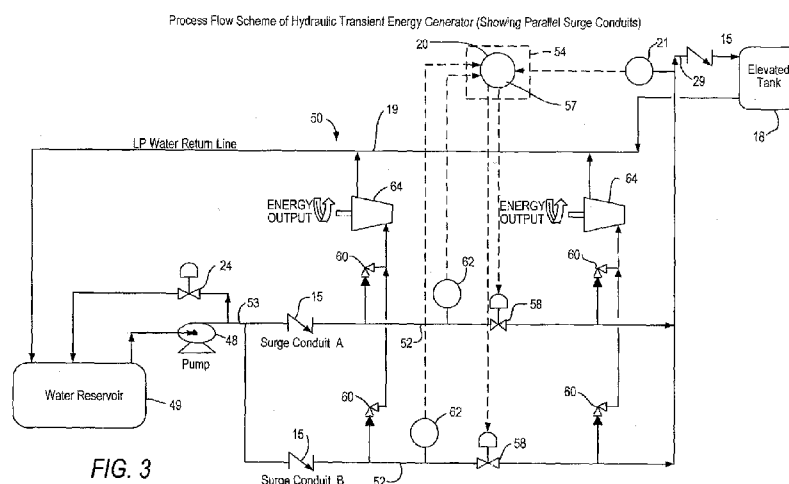


FIG. 3

(57) **Abstract:** The application is based on the principle of hydraulic transients involving conversion of kinetic energy into potential energy. To take advantage of the potential energy developed in the system as a result of this transient phenomenon, the application makes the transient pressure surge continuous and steady. Rapid response valves with an appropriate and compatible instrumentation system to make it possible to periodically and continuously induce pressure surges to maintain high pressure at the outlet of the system. The steady pressure rise at the outlet of the system can either serve as a means to drive a turbine for generating electrical power, or for pumping liquid from lower pressure to a higher pressure, wherein it can be used for driving pumps, compressors and the like which require energy input for their operation.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.

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)
F03G F03B F04F

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)

EPO-Internal, WPI Data

C. 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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X	----- WO 2007/076866 A1 (PEDERSEN JOERGEN) 12 July 2007 (2007-07-12) the whole document	1-23
X	----- DE 103 17 680 A1 (GOETZE WERNER [DE]) 28 October 2004 (2004-10-28) the whole document	1-5, 7-10, 18-23
X	----- WO 2006/085782 A1 (CHING JOSE [PH]) 17 August 2006 (2006-08-17) the whole document ----- -/-	1-23



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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X	----- US 4 930 993 A (HAN TAI-KANG [TW] ET AL) 5 June 1990 (1990-06-05) the whole document -----	1,4, 19-22

INTERNATIONAL SEARCH REPORT

Information on patent family members

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