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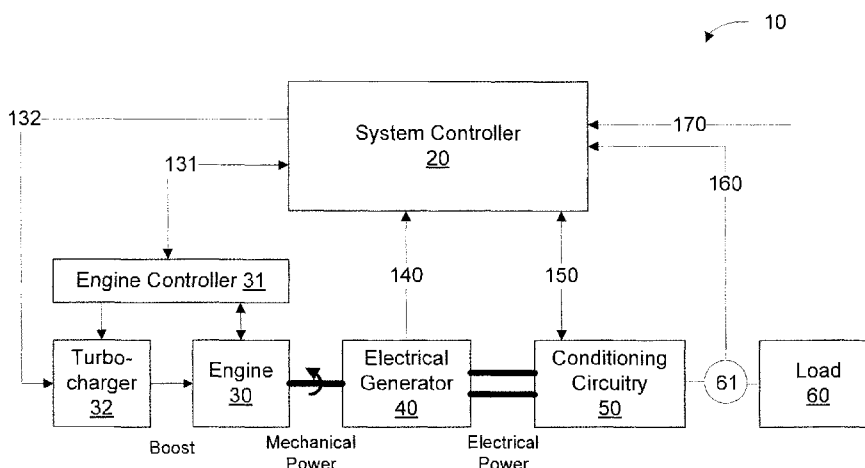


Fig. 2

(57) **Abstract:** An electric power generation system including an engine, an electrical generator, and a system controller. The engine is configured to produce mechanical power and includes an engine controller and a turbocharger for raising air pressure to a boost pressure. The turbocharger is controlled by the engine controller during steady state operation of the system. The electrical generator is mechanically connected to the engine and converts mechanical power into electrical power. The system controller is configured to receive a signal indicative of an electrical load on the generator. During a transient condition during which the electrical load increases, the system controller is configured to directly control the turbocharger in order to change the configuration of the turbocharger in order to increase boost pressure.



A. CLASSIFICATION OF SUBJECT MATTER***B60W 10/08(2006.01)i, B60W 20/00(2006.01)i, B60K 6/26(2007.10)i***

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)

B60W 10/08; H02H 7/06; F01K 23/06; F02B 37/24; F02B 33/00; H02P 9/04; F02G 5/04; F02B 3/00; B60K 41/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: engine, turbocharger, generator, transient, strategy, electrical load, controller, boost pressure, steady state

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0211253 A1 (THOMAS D. RADCLIFF et al.) 27 August 2009 See abstract, page 2 and figure 3	1-9
A	WO 03-018974 A1 (EATON CORPORATION) 06 March 2003 See abstract, page 5, 6 and figure 1	1-9
A	US 2007-0157910 A1 (KAZUYOSHI OBAYASHI) 12 July 2007 See abstract, page 6 and figure 4	1-9
A	US 2009-0261599 A1 (GERALD ALLEN ALSTON et al.) 22 October 2009 See abstract, page 3 and figure 5	1-9
A	US 04010717 A (LAEL BRENT TAPLIN) 08 March 1977 See abstract and figure 1	1-9



Further documents are listed in the continuation of Box C.



See patent family annex.

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INTERNATIONAL SEARCH REPORT

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